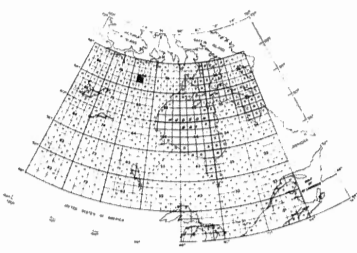
[illegible]

Published 1979



TOTAL COUNT  
MAP 35666G  
**PELLEY LAKE**  
DISTRICT OF KEEWATIN  
NORTHWEST TERRITORIES

SCALE 1:250 000

2.5 5 10 15 20 KILOMETERS

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GEOLOGICAL SURVEY, OTTAWA

Uranium Reconnaissance Program Airborne Gamma-Ray Spectrometer Survey 1978. flown and compiled by the consortium of Terra Sciences Ltd., consortium, directional, Keating Earth Sciences Ltd. and Northway Survey Corporation Ltd.

[illegible]

TOTAL COUNT  
PELLEY LAKE  
MAP 35866G  
NORTHWEST TERRITORIES

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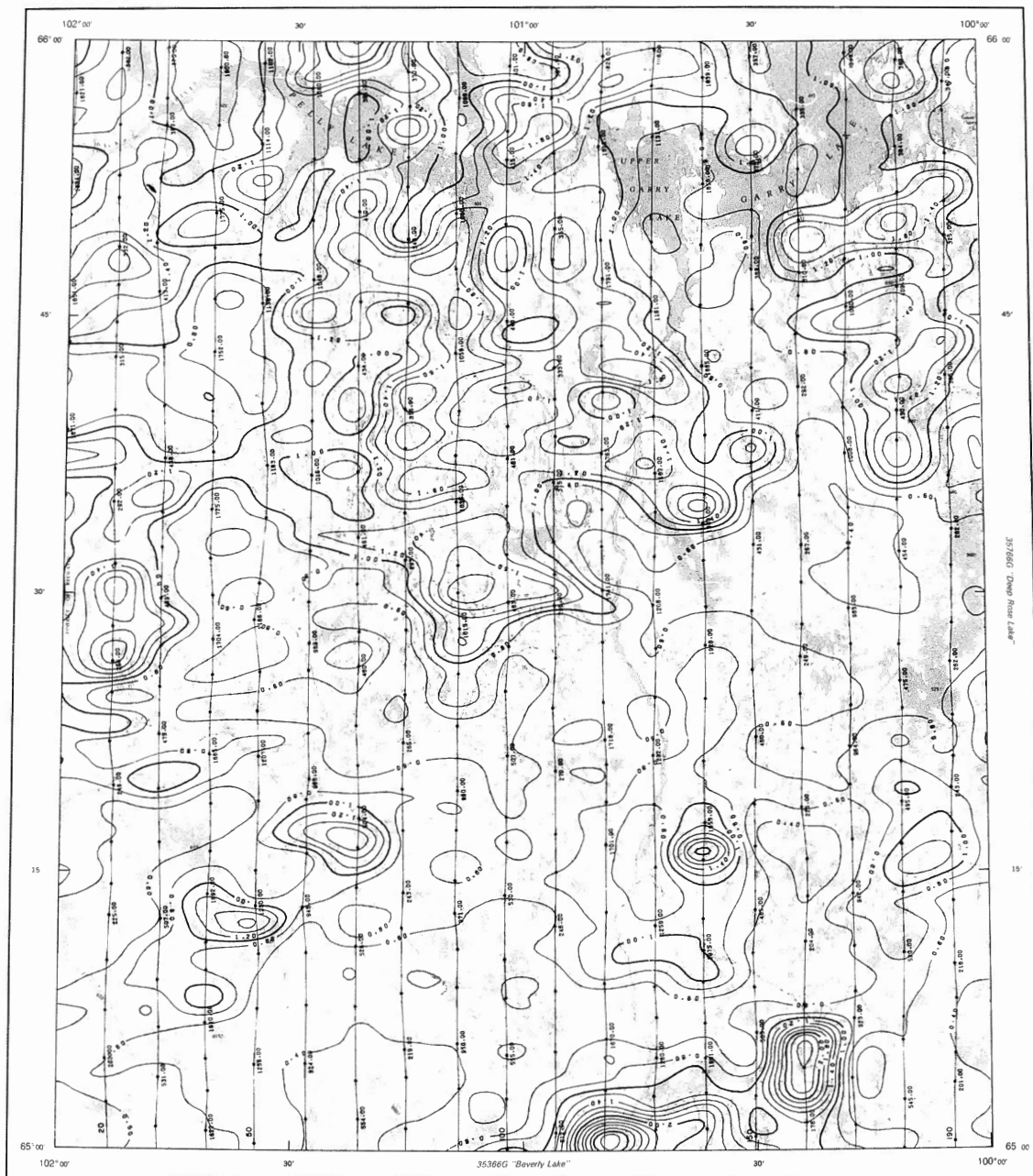
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de la publication originale.



GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

GEOPHYSICAL SERIES (AIRBORNE GAMMA-RAY SPECTROMETRIC)

POTASSIUM (K) 66F



35366G "Devery Lake"

POTASSIUM (K)  
MAP 35666G

PELTY LAKE  
DISTRICT OF KENWATIN  
NORTHWEST TERRITORIES

SCALE 1:250 000

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GEOLOGICAL SURVEY OF CANADA, OTTAWA

Published 1979

This map is a contour map of potassium (K) concentrations in the Pelly Lake area, Northwest Territories. The data were obtained from an airborne gamma-ray spectrometric survey conducted in 1978. The map shows contour lines representing potassium concentrations in parts per million (ppm). The values range from 0.0 to 1.0 ppm. The map is based on a grid of 100,000 square meters. The map is published by the Geological Survey of Canada, Department of Energy, Mines and Resources. The map is titled "PELTY LAKE" and "MAP 35666G". The map is published in 1979.

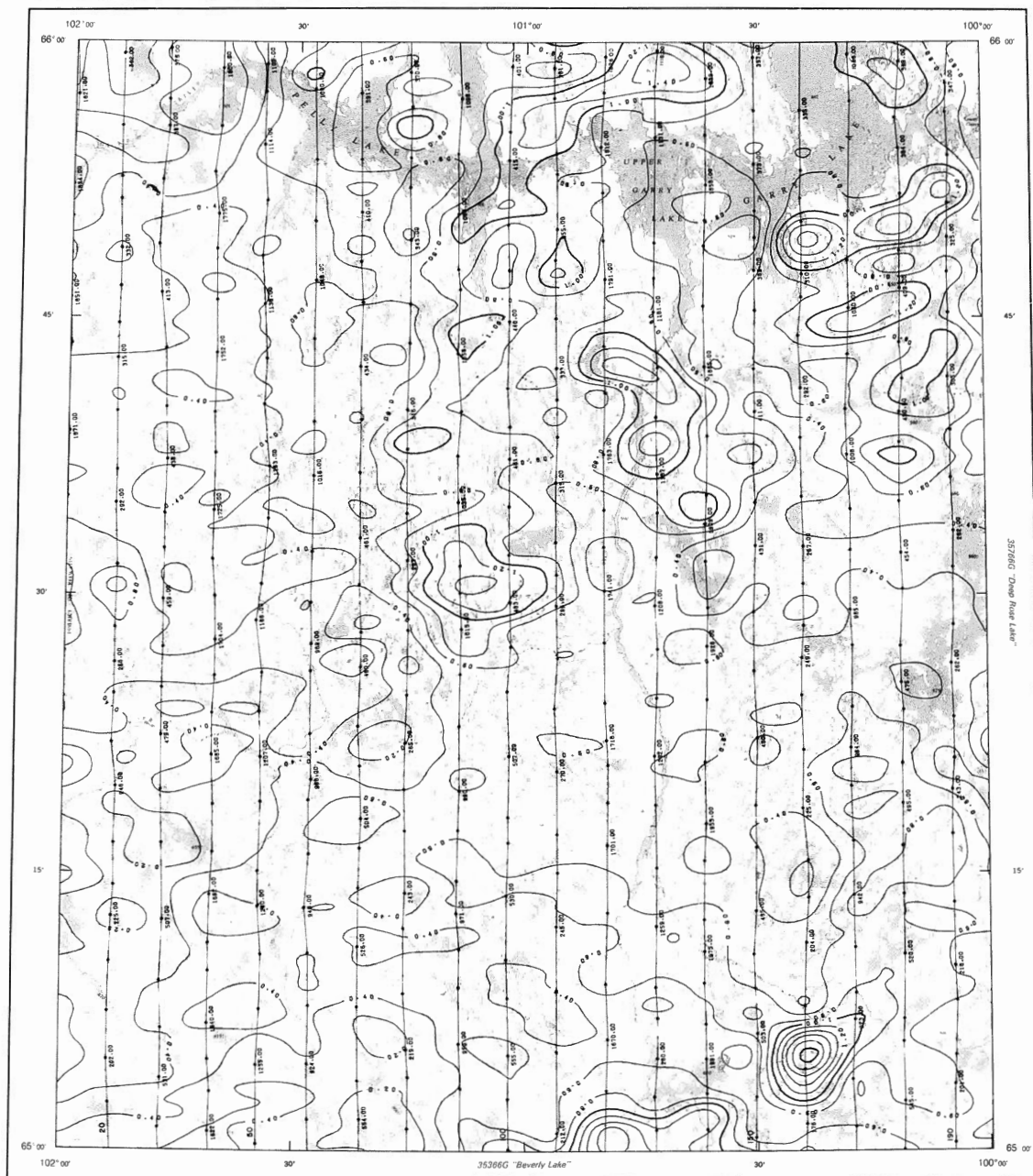
POTASSIUM (K)  
PELTY LAKE  
MAP 35666G  
NORTHWEST TERRITORIES  
66F



GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

GEOPHYSICAL SERIES (AIRBORNE GAMMA-RAY SPECTROMETRIC)

EQUIVALENT URANIUM (eU) 66F



Published 1979

EQUIVALENT URANIUM (eU)  
MAP 35366G

**PELLY LAKE**  
DISTRICT OF KENWATIN  
NORTHWEST TERRITORIES

SCALE 1:250,000

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GEOLOGICAL SURVEY OF CANADA, OTTAWA

Report on the Airborne Gamma-Ray Spectrometry Survey of the Pelly Lake Area, Northwest Territories, 1978. The survey was conducted by the Geological Survey of Canada, Northwest Territories Office, and the Northwest Territories Department of Lands and Resources. The survey area is located in the Northwest Territories, near the border with Yukon and British Columbia. The survey was conducted using an airborne gamma-ray spectrometer, which measures the natural radioactivity of the earth's crust. The results of the survey are presented in this report, which includes a map of the survey area showing equivalent uranium (eU) concentrations. The map is a contour map, with contours representing eU concentrations in parts per million (ppm). The map is titled '35366G Beverly Lake' and '35366G Thane River Lake'. The map includes a grid with coordinates (102°00' to 100°30' longitude, 66°00' to 65°00' latitude) and a scale bar indicating 1:250,000. Contours represent eU levels, with values ranging from 0.0 to 1.0 eU. Survey lines are marked with station numbers. The map is titled '35366G Beverly Lake' and '35366G Thane River Lake'.

1:250,000 topographic map sheets  
1:250,000 topographic map sheets  
1:250,000 topographic map sheets

1:250,000 topographic map sheets  
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The map was compiled from airborne gamma-ray spectrometry data collected during the 1978 survey. The data were processed using a computer program which calculates the equivalent uranium (eU) concentration from the gamma-ray counts. The map is a contour map, with contours representing eU concentrations in parts per million (ppm). The map is titled '35366G Beverly Lake' and '35366G Thane River Lake'. The map includes a grid with coordinates (102°00' to 100°30' longitude, 66°00' to 65°00' latitude) and a scale bar indicating 1:250,000. Contours represent eU levels, with values ranging from 0.0 to 1.0 eU. Survey lines are marked with station numbers. The map is titled '35366G Beverly Lake' and '35366G Thane River Lake'.

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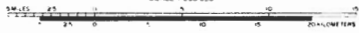
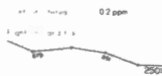
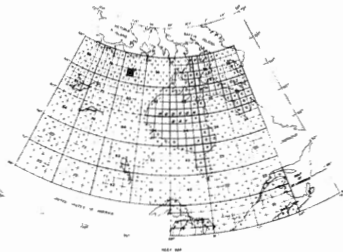
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EQUIVALENT URANIUM (eU)  
MAP 35366G

NORTHWEST TERRITORIES

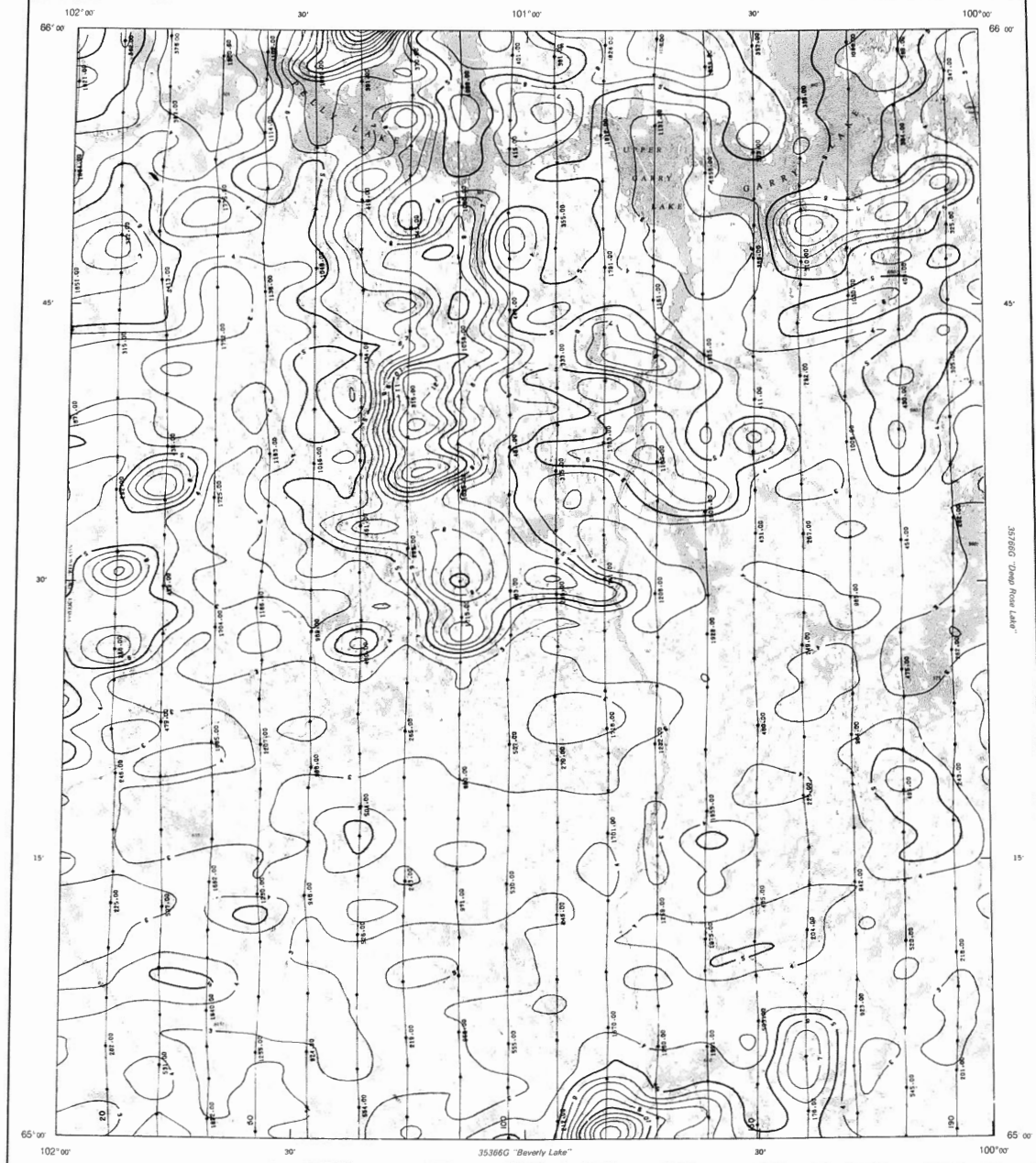
66F



GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

GEOPHYSICAL SERIES (AIRBORNE GAMMA-RAY SPECTROMETRIC)

EQUIVALENT THORIUM (eTh) 66F



Published 1979

EQUIVALENT THORIUM (eTh)  
MAP 35666G

**PELLY LAKE**  
DISTRICT OF KEENWATIN  
NORTHWEST TERRITORIES

SCALE 1:250,000

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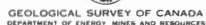
Information for this map was obtained from the Department of Energy, Mines and Resources, Ottawa. The map was compiled by the Geological Survey of Canada, Ottawa. The map was compiled by the Geological Survey of Canada, Ottawa. The map was compiled by the Geological Survey of Canada, Ottawa.

1. The map was compiled by the Geological Survey of Canada, Ottawa. The map was compiled by the Geological Survey of Canada, Ottawa. The map was compiled by the Geological Survey of Canada, Ottawa.

EQUIVALENT THORIUM (eTh)







Published 1979

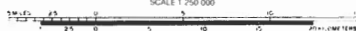
eU/K RATIO  
MAP 35666G

## PELLE LAKE

DISTRICT OF KEEWATIN

NORTHWEST TERRITORIES

SCALE 1:250 000



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GEOLOGICAL SURVEY OF CANADA OTTAWA

Transect Reclamation Program Airborne Gamma-Ray Spectrometer Survey 1978. Drawn and compiled by the U.S. Army Corps of Engineers and consortium of other Army Engineering and Environmental Survey and Northway Survey. 1:50,000 scale.

The lithography for this series of maps was repro-  
duced by the Lithographic Department of map sheets  
published by the Department of Energy, Mines and  
Technical Surveys. Off. A3

The data was sampled from a gamma-ray spectrometer data recorded during  
 using the high-resolution spectrometer at 50 Hz, 4000-keV (PMT) in the  
 recorded gamma-ray data in four channels with the following energy ranges

Channel 1	2.42 - 2.82 MeV
Channel 2	1.66 - 1.86 MeV
Channel 3	1.36 - 1.56 MeV

Channels 1, 2 and 3 were centered on the 262-MeV  $^{110m}\text{Ag}$  peak, the 170-MeV  $\text{Bi}^{214}$  peak, and the 1120-MeV  $\text{Bi}^{214}$  peak, respectively. Counts were acquired at

photo peak and  $\sim 1.46$  MeV  $K^{\alpha}$  photo peak. Respectively, counts were accumulated in these channels and recorded at one second intervals. The trigger coincidence was averaged and recorded at one second intervals. The detectors were thermally stabilized to  $\pm 0.01$  K.

spectrum shift. The survey aircraft were flown at a planned survey altitude of 400 feet and at a ground speed between 190 knots and 240 knots.

The data were corrected for dead time, atmospheric changes in temperature, back-ground radiation, spectral scattering and deviations of beam clearance from the planned geometry. The corrected data were then converted to counts per second (cps) and the results were plotted as shown in Figure 1.

survey altitude. Corrected count rates from channels 1, 2 and 3 were converted to counts s<sup>-1</sup> kg<sup>-1</sup> eq. valent for each eq. valent element (aluminum and potassium) using conversion factors determined for six common dry deposits, which are used in the survey. The total count rates from

at 1000–1200 h. All birds were handled by the same person. The birds were then released and the observer moved to the next tree. The birds were then released and the observer moved to the next tree. The birds were then released and the observer moved to the next tree.

1. Name of the	1 ppm eth	0 cps
2. Name of the	1 ppm eu	0 to 10 cps

Age group	%	70 to 80 yrs
Age group 8	1.2	80 to 90 yrs

with  $\lambda = \lambda(\mathbf{z}) \in \mathbb{R}$ , a constant depending on  $\mathbf{z}$  and  $\lambda$  is a constant, the case  $\lambda = 0$  is not covered.

100% I/K RATIO

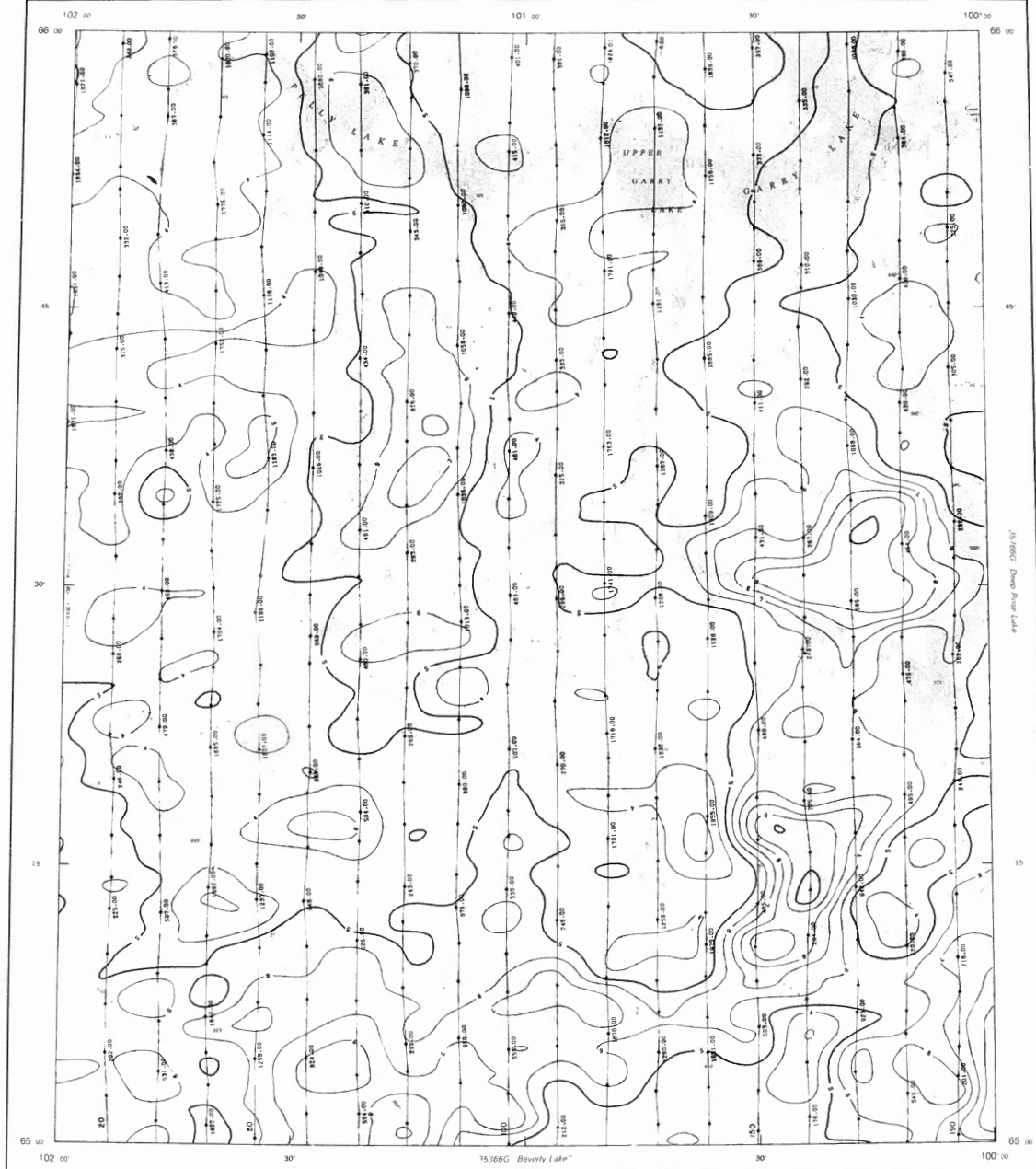
a.  $I/K$  RATIO



GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY MINES AND RESOURCES

GEOPHYSICAL SERIES (AIRBORNE GAMMA-RAY SPECTROMETRIC)

6Th/K RATIO 66F



20,000G Deep River Lake

Published 1979

6Th/K RATIO  
MAP 35666G

PELLEY LAKE  
DISTRICT OF KENAWATIN  
NORTHWEST TERRITORIES

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GEOLOGICAL SURVEY OF CANADA OTTAWA

6Th/K RATIO  
PELLEY LAKE  
MAP 35666G  
NORTHWEST TERRITORIES

66F