



MAP 684 G
ADVANCE EDITION

MANSFIELD LAKE

DISTRICT OF MACKENZIE
NORTHWEST TERRITORIES

Airborne Magnetic Survey, July to September 1955, by Geophysics Division Geological Survey of Canada, Department of Mines and Technical Surveys.

No correction has been made for regional variation; this increases at the rate of 1.9 gammas per mile from west to east and 1.5 gammas per mile from north to south.

The planimetry for these maps has been traced from maps based on trimetrogon photography with limited ground control. Lack of planimetric control may have led to large position errors in places.

The magnetic data on this map were compiled from information recorded along the flight lines shown. The anomalies expressed by the magnetic contours are dependent on the variable magnetic intensities of the underlying rocks, and may be due to conditions near, or at unknown depths below, the surface. High magnetic anomalies normally indicate the presence of basic rocks, such as diabase, gabbro, or serpentine, which have a relatively high iron content; but in special instances may be due, or partly due, to concentrations of magnetic ore minerals. By means of the magnetic anomalies, various rock bodies or structural features, such as faults or folds, may be traced by the geologist into, or across, areas of few or no outcrops. In many instances, however, no interpretation of particular anomalies may be possible without further geological information.