



ISOMAGNETIC LINES (absolute total field)

500 gammas.....  
100 gammas.....  
20 gammas.....  
10 gammas.....  
Magnetic depression.....

Flight lines.....  
Flight altitude 1000 feet above ground level

MAP 4167G

SHEET 62 <sup>P</sup>/<sub>12</sub>  
MANITOBA

Scale: One Inch to One Mile =  $\frac{1}{63,360}$   
Miles

1 1/2 0 1 2 3

This photo - map was prepared by Spartan Air Services Ltd.,  
for the Department of Energy, Mines and Resources, Ottawa.

Copies of this photo - map may be obtained through the  
National Air Photo Library.

Airborne Magnetic Survey, March 1967 to October  
1968 by Spartan Air Services Ltd.

No correction has been made for regional variation.

Where the survey aircraft traversed large areas of  
water and swamp, Doppler navigation was utilized to  
direct the course of the aircraft and the Doppler output  
was recorded on an incremental X, Y recorder for  
compilation purposes.

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 serpentinite, which  
have a relatively high iron content, but in special instances may be due,  
or partly due, to concentrations of magnetic minerals. By means of  
the magnetic anomalies, various rock bodies or structural features, such  
as faults or folds may be traced into, or across, areas of few or no out-  
crops. In many instances, however, no interpretation of particular an-  
omalies may be possible without further geological information.

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