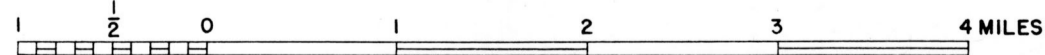


Base from Indiana State Highway  
Map, corrected to January 1, 1937

TOTAL INTENSITY AEROMAGNETIC MAP OF CLARK COUNTY, INDIANA

RELATIVE TO ARBITRARY DATUM



Contour interval 10 gammas  
Flown 1000 feet above surface

1951

EXPLANATION

Magnetic contours with flight-line  
intersections; contours dashed  
where data incomplete

Magnetic contour enclosing area of  
lower magnetic intensity

Measured maximum or minimum intensity  
within closed high or closed low

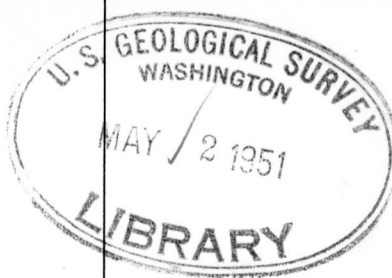
This aeromagnetic map is one of a series of county  
maps based on a state-wide aeromagnetic survey of  
Indiana which was carried out during the periods Sep-  
tember to November 1947 and September to November  
1948 by the U. S. Geological Survey in cooperation with  
the Division of Geology of the Indiana Department of  
Conservation.

The survey was made to obtain information on the  
configuration of the crystalline basement rocks, on varia-  
tions in their composition, and on their relation to struc-  
tures in the overlying sedimentary rocks. The extensive  
area covered by the survey will also permit a study of the  
magnetic expressions of large scale features, such as the  
regional tilt of the surfaces of the basement rocks.  
It is expected that this information will aid in the search  
for geologic structures favorable to the accumulation of  
petroleum.

The measurements were made by a continuously  
recording AN/ASQ-3A airborne magnetometer installed  
in a Beechcraft AT-11 airplane. North-south traverse  
lines were flown approximately 1,000 feet above the  
ground at one-mile intervals. Aerial photographs were  
used for pilot guidance, and the flight path of the aircraft  
was recorded by a gyro-stabilized continuous strip cam-  
era. The distance from plane to ground was measured  
with a continuously recording radio altimeter. A gyro-  
stabilized vertical sight was used to increase positional  
accuracy.



Index map of Indiana showing  
Clark County



M(200)  
GP  
Sheet 1  
C-1

Aeromagnetic survey 1948 by  
J. R. Henderson and J. L. Meuschke  
Compilation directed by J. R. Henderson

For sale by U. S. Geological Survey  
PRICE 15 CENTS

