This aeromagnetic map is one of a series of county maps based on a statewide aeromagnetic survey of Indiana which was carried out during the periods September 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 structure of the pre-Devonian rocks, and on their relation to structures in the underlying Precambrian rocks. The extensive area covered by the survey will also permit a study of the regional magnetic anomalies of large-scale features, such as synclines, anticlines, and faults, and the presence or absence of intrusive 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 AHA-3006 aeromagnetic recorder installed in a specially modified standard commercial airplane. The aircraft followed essentially north-south flight lines at an altitude of approximately 1,000 feet above the ground, at an interval of 1,000 feet between flight lines. A standard pendulum was used for gravity determinations, and a flight path of the aircraft was recorded by a gyrostabilized continuous strip camera. The distances from plane to ground was measured with a continuously recording scale antenna. A gain-stabilized vertical sight was used to increase positional accuracy.

TOTAL INTENSITY AEROMAGNETIC MAP OF OHIO COUNTY, INDIANA

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

Map, compiled by J. R. Henderson and J. L. Hileman
Prepared in cooperation with
INDIANA DEPARTMENT OF CONSERVATION, DIVISION OF GEOLOGY

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY
PREPARED IN COOPERATION WITH
GEOPHYSICAL INVESTIGATIONS
MAP OF OHIO COUNTY, INDIANA

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