TOTAL INTENSITY AEROMAGNETIC MAP OF FAYETTE COUNTY, INDIANA

RELATIVE TO ARBITRARY DATUM

Contour Interval 10 gamma
From 1000 feet above surface

1981

Refer from Indiana State Highway Map, corrected to January 1, 1957

EXPLANATION

Magnetic surveys with flight-line measurements conducted during summers of 1980 and 1981.

Magnetic contour outlining area of lower magnetic anomaly.

Marked maximum or minimum intensity within closed high or closed low.

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 1980 and September to November 1981 by 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 thickness of their coverings, and on their relation to structures in the overlying sedimentary rocks. The extensive area covered by the survey also permits 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 KALRO 24 aeromagnetic recorder installed in a Beechcraft A36 airplane. North-south traverse lines were flown approximately 1,000 feet above the ground at one-mile intervals. Aerial photographs were used for pilot plotting, and the flight path of the aircraft was recorded by a ground-based continuous strip chart. The distance from plane to ground was measured with a continuously recording radio altimeter. A ground-based vertical sight was used to increase positional accuracy.