DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

GEOPHYSICAL INVESTIGATIONS
MAP GP-538

EXPLANATION

Magnetic contours

Showing total intensity magnetic field of the earth in gammas relative to arbitrary datum. Hachured to indicate closed areas of lower magnetic intensity; dashed where data are incomplete. Contour intervals are 20 and 100 gammas

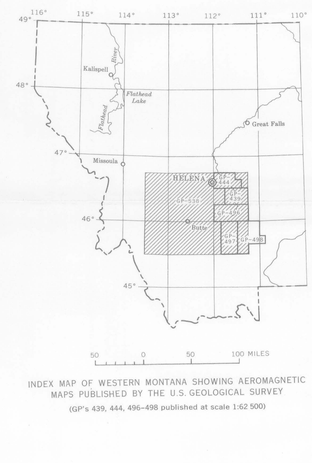
Location of measured maximum or minimum intensity within closed high or closed low

Flight path

Showing location and spacing of data

NOTE

Aeromagnetic data are obtained and compiled along a continuous line, whereas ground magnetic surveys are made at separate points. Errors within the normal limits of any magnetic measurement may cause slight discrepancies between flight lines in an aeromagnetic map, which would be more obvious than similar discrepancies between points in a ground magnetic map. For this reason as much care should be exercised in evaluating magnetic features that appear as elongations along a single aeromagnetic traverse as in interpreting an anomaly indicated by a single ground station



INDEX MAP OF WESTERN MONTANA SHOWING AEROMAGNETIC MAPS PUBLISHED BY THE U.S. GEOLOGICAL SURVEY

(GP's 439, 444, 496–498 published at scale 1:62 500)

Base from U.S. Geological Survey 250 000 series quadrangles: Butte, 1958; Dillon, 1953–62; Bozeman, 1957; and White Sulphur Springs, 1938

Aeromagnetic survey flown at 10,500 feet barometric elevation, 1953 and 1955

AEROMAGNETIC MAP OF THE BOULDER BATHOLITH AREA, SOUTHWESTERN MONTANA

By

R. W. Johnson, Jr., J. R. Henderson, and N. S. Tyson

SCALE 1:250 000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

1965

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For sale by U.S. Geological Survey, price 50 cents