DEPARTMENT OF THE INTERIOR GEOPHYSICAL INVESTIGATIONS UNITED STATES GEOLOGICAL SURVEY MAP GP 171 EXPLANATION BOONTON RESERVOIR Magnetic contours and flight HILL traverse Contours dashed where data are incomplete; contours show total intensity relative to an abritrary datum. Lake Parsippany Magnetic contour enclosing area of lower magnetic intensity Measured maximum or minimum intensity within closed high or closed low 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 appreciated in a quantity maps. 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 maps showing location of area mapped Birch Hills NEW YORK NEW JERSEY GP 158 GP 159 GP GP 163 GP GP GP GP 165 166 167 168 GP 169 FLORHAM Base from U. S. Geological Survey topographic quadrangle map Aeromagnetic survey flown at 500 feet above ground 1950 AEROMAGNETIC MAP OF THE MORRISTOWN QUADRANGLE MORRIS COUNTY, NEW JERSEY By John R. Henderson, Natalie Tyson, May Wilson and others Scale 1:31 680 Approximate mean declination 1957 Contour interval 50 and 250 gammas GEOPHYSICAL INVESTIGATIONS MAP GP 171 1958 For sale by the U. S. Geological Survey, price 50 cents