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**ROBERT W. JOHNSON**  
(1924 - )

NOTES, CORRESPONDENCE, PAPERS

1956 - 1971

(0.1 linear ft. and 2 map folders)

INVENTORY

By

Carol A. Edwards and Clay M. Martin  
U.S. Geological Survey Field Records Collection  
MS 914, Box 25046, Federal Center  
Denver, CO 80225-0046  
September 2002/January 2003/October 2010

Location of Field Notebooks: CS-9: 12

## **GEOPHYSICAL INVESTIGATION OF IGNEOUS ROCKS IN THE SHENANDOAH VALLEY, VIRGINIA. 1956-1957.**

<u>Item Number</u>	<u>Description</u>
NO-08357	Envelope with: <ul style="list-style-type: none"><li>- Typed copy of a 14-page report entitled "Regional geophysical data and their relation to the Appalachians in central and western Virginia, Part I: Regional aeromagnetic surveys", by Robert W. Johnson, Jr. 1957. This report appears to have been presented at the May 1957 meeting of the Southeastern Section, Geological Society of America, Morgantown, West Virginia.</li><li>- Typed copy of a 34-page report entitled "Geophysical investigation of the igneous rocks in the Shenandoah Valley, Virginia", by R.W. Johnson. 1956.</li><li>- Miscellaneous correspondence, forms, and draft figures related to proposed publication or presentation of the above reports.</li></ul>
MA-01753	Map folder with five maps and diagrams showing geophysical data for the Shenandoah Valley, Virginia.

Published as: Geological Society of America Bulletin. Vol. 68, No. 12. 1957.

Published as: U.S. Geological Survey. Geophysical investigations map GP-414. 1963.

## **SIGNIFICANCE OF GEOPHYSICAL ANOMALIES CAUSED BY BASEMENT ROCKS IN KENTUCKY AND TENNESSEE. 1961-1971.**

NO-08358	Typed copy of an unpublished 67-page report entitled "Significance of gravity and magnetic anomalies caused by basement rocks in parts of Kentucky and Tennessee", by Robert W. Johnson and Paul C. Moore. Also included is miscellaneous correspondence related to publication of the paper in a peer-reviewed journal.
MA-01754	Map folder with 12 items: <ul style="list-style-type: none"><li>- Map showing location of geophysical surveys in Kentucky and Tennessee.</li><li>- Geologic sketch map of the north-central Cumberland Plateau and adjacent areas, Kentucky and Tennessee.</li><li>- Diagram showing aeromagnetic traverse data across the Cumberland Plateau in Kentucky and Tennessee.</li><li>- Gravity map of the north-central Cumberland Plateau and adjacent areas, Kentucky and Tennessee.</li><li>- Sheet with diagrams comparing geophysical data with geology in the area covered by aeromagnetic traverses for this project.</li><li>- Sheet with diagrams comparing observed and computed total intensity magnetic anomalies for buried masses.</li></ul>

- Diagram showing relationship in plan between observed and computed anomalies. for this project.
- Diagram showing observed and computed anomalies recorded during aeromagnetic traverse 2.
- Diagram showing aeromagnetic profiles over parts of the Piedmont Province, North and South Carolina.
- Diagram showing aeromagnetic profile over the Duluth Gabbro and Keweenaw lava flows.
- Sheet with diagrams comparing Cumberland Plateau aeromagnetic anomalies with those caused by some intrusive and extrusive mafic igneous rocks.
- Sheet with diagram comparing aeromagnetic profiles in areas underlain by iron formations and associated rocks in upper Michigan and Wisconsin.