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**U.S. GEOLOGICAL SURVEY FIELD RECORDS LIBRARY  
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**RUDOLPH ALLEN BLACK  
(1924- )**

**NOTES, CORRESPONDENCE, PAPERS**

**1953 - 1962**

(.5 Linear Feet and 2 Map Folders)

INVENTORY

by

Carol A. Edwards

Revised and Edited by Glenn S. Cook

U.S. Geological Survey Field Records Library

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Location of Field Notebooks CS 19-12

**GEOPHYSICAL INVESTIGATIONS OF CHANNELS IN THE KOLEY  
BLACK AREA. MONUMENT VALLEY, ARIZONA. 1953-1955.**

<u>Item Number</u>	<u>Description</u>
NO-08471	<p>Envelope includes an unpublished report by R.A. Black and W.H. Jackson, of the results of experimental geophysical investigations undertaken to determine if they “could be used to supply answers to some of the geologic problems connected with Shinarump channels”, which are commonly associated with uranium minerals (Abstract, p. 4 and Intro., p. 5). Apparently, the report was proposed for publication as U.S. Geological Survey Trace Elements Memorandum Report, TEM 774, but was not published.</p> <p>There is also a carbon copy of “Exploring for ancient channels with the refraction seismograph” by L.C. Pakiser and R.A. Black, edited for presentation at a meeting of the Society of Exploration Geophysicists, Denver, Colorado, October 6, 1955.</p>

**PROGRESS REPORT ON THE RESULTS OF SEISMIC INVESTIGATIONS  
IN OLJETO WASH AREA, MONUMENT VALLEY, ARIZONA. 1955.**

NO-08366	<p>Copies of an unpublished report on seismic investigations, and related correspondence. Other authors are Don L. Healey and John C. Roller. The report was intended for publication as a USGS Trace Elements Memorandum report, and concerns work done on behalf of the Division of Raw Materials, U.S. Atomic Energy Commission.</p>
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**GEOPHYSICAL INVESTIGATION OF SEDIMENTARY STRUCTURES  
CONTROLLING URANIUM DEPOSITION IN THE SHINARUMP  
CONGLOMERATE. MONUMENT VALLEY, ARIZONA AND UTAH.  
1955-1956.**

NO-08370	<p>Unpublished paper discussing geophysical exploration methods (electrical, resistivity, and seismic refraction) for locating uranium deposits in buried channels; the coauthors are R.M. Hazlewood, Don L. Healey, and John C. Roller. There is also related correspondence.</p>
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The geophysics work was part of the Colorado Plateau Project undertaken on behalf of the U.S. Atomic Energy Commission, Division of Raw Materials.

MA-01759 Map folder with 3 sheets of illustrations that accompany the report Oljeto Wash area, Monument Valley, Arizona..

**MAGNETIC, SELF-POTENTIAL, AND ELECTRICAL RESISTIVITY MEASUREMENTS IN THE HAYSTACK BUTTE AREA. MCKINLEY COUNTY, NEW MEXICO. 1956.**

NO-08364 Title on abstract page: "Geophysical investigations in the Haystack Butte area, McKinley County, New Mexico." This is a copy of an unpublished report, apparently intended for publication as a USGS Trace Elements Memorandum Report. The work was done on behalf of the Division of Raw Materials, U.S. Atomic Energy Commission.

**RELATED GEOLOGIC AND GEOPHYSICAL INVESTIGATIONS OF THE SHINARUMP MEMBER OF THE CHINLE FORMATION IN EL CAPITAN FLAT. NAVAJO COUNTY, ARIZONA. 1962.**

NO-08359 Envelope with:

- folders #1 and #2 – typed draft of an unpublished report compiled by Rudolph A. Black and David A. Phoenix, related to investigations on the Colorado Plateau in order to locate uranium deposits. The work was undertaken by the U.S. Geological Survey on behalf of the U.S. Atomic Energy Commission, Division of Raw Materials. Additional authors of the various chapters include Carl M. Bunker, P.C. Franks, F. Frischknecht, D.L. Healey, Seymour Horowitz, and J.C. Roller;
- folder #3 – some of the illustrations for the intended publication.

MA-01755 Map folder with 15 additional illustrations for the intended publication regarding El Capitan Flat, Navajo County, Arizona.