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**U.S. GEOLOGICAL SURVEY LIBRARY  
FIELD RECORDS COLLECTION  
DENVER, COLORADO**

**ROBERT ROY COATS**  
(1910-1995)

NOTES, CORRESPONDENCE, PAPERS

1933 - 1984

(1.8 linear ft.)

Robert Roy Coats was born in Toronto, Ontario, Canada, and raised in Iowa and Washington. He received B.S. and M.S. degrees in Geology and Mining from the University of Washington in 1931 and 1932, and a Ph.D. from the University of California at Berkeley in 1938. Coats taught at the University of Alaska at Fairbanks before joining the U.S. Geological Survey in 1939. During his 43 year career with the Survey he worked primarily in Nevada and Alaska. His work on the origin of the Aleutian island arc was a key contribution in the development of the theory of plate tectonics. Coats was a Fellow of the Geological Society of America and a member of the Theta Tau, Sigma Xi, and Phi Beta Kappa fraternities.

INVENTORY

By

Clay M. Martin and Carol A. Edwards  
U.S. Geological Survey Field Records Collection  
MS 914, Box 25046, Federal Center  
Denver, CO 80225-0046  
May 2008

Location of Field Notebooks: CS 18-7

## **GEOLOGY OF THE COMSTOCK LODGE, NEVADA. 1933-1937.**

Item

Number

Description

NO-10642 Expandable envelope with pages from a field notebook with geologic notes on the Comstock Lode-Virginia City area, Nevada. Also included is one copy of a map showing the Mount Davidson fracture system in the Comstock Lode-Virginia City area. 1933-1937. This work was apparently done as part of Coats' doctoral thesis studies at the University of California, Berkeley.

## **RECONNAISSANCE OF URANIFEROUS GRANITE ROCKS. 1951-1952.**

NO-10628 R.R. Coats. Field notebook with geologic sketches and notes from Kennebec, Oxford, and York Counties, Maine; Essex, Hampshire, Middlesex, and Norfolk Counties, Massachusetts; Hunterdon and Sussex Counties, New Jersey; Clinton and Essex Counties, New York; Chester County, Pennsylvania; Providence County, Rhode Island; and Chittenden and Rutland Counties, Vermont. 1951.

NO-10629 R.R. Coats. Field notebook with geologic sketches and notes from Arizona, California, Montana, New Mexico, Oregon, Texas, and Washington. 1951-1952.

Published as: U.S. Geological Survey. Trace Elements Memorandum 343. 1952.

## **GEOLOGIC STUDIES OF WESTERN RHYOLITES. 1952-1965.**

NO-10630 R.R. Coats. Field notebook with photographic captions and geologic descriptions of rhyolites from Cochise, Greenlee, Maricopa, Mohave, Pinal, and Yuma Counties, Arizona; Mono and San Bernardino Counties, California; Custer County, Colorado; Catron, Grant, Hidalgo, Luna, Sandoval, Sierra, Socorro, Taos, and Valencia Counties, New Mexico; Clark County, Nevada; Brewster, Jeff Davis, and Presidio Counties, Texas; and Beaver County, Utah. 1955, 1965.

NO-10631 R.R. Coats. Field notebook with geologic descriptions of rhyolites from Arizona, California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming. 1952-1953.

NO-10632 Expandable envelope with preliminary diagrams and figures illustrating fluorine and silica content and refraction indexes for western rhyolites.

## **GEOLOGY OF THE JARBIDGE 7.5' QUADRANGLE AND VICINITY, ELKO COUNTY, NEVADA AND OWYHEE COUNTY, IDAHO. 1952-1975.**

- NO-08189 Expandable envelope with:  
 Folder #1 – Notes on photos taken, 1972-1975. Includes geologic notes with general descriptions of specific strata as well as notes on specific locations;  
 Folder #2 – Suharsono’s notes. 1963. Geologic notes, stations S-1 – S-140, and notes on samples;  
 Folder #3 – Botanical Collection. Jarbidge quadrangle and vicinity, Nevada – Idaho. Specimen numbers 101-269. Notes give specimen number, date collected, location, and botanical name. Dates collected are 1954-1956;  
 Folder #4 – Jarbidge Wilderness. List by station number giving photo number, quadrangle, plane coordinates, and index section in notes that follow. Station numbers 2651 – 3154. List of Samples, includes sample number, station location, description, formation, and work needed. Specimen numbers 72NC: 1-236, 73NC: 25; 74NC: 1-105, 75NC: 1-51, 77NC: 1-17, 78NC: 1-72, 79NC: 1-59, 1980 trip numbers 1-6, 81NC: 1-33. List of G-X samples (samples intended for geochemical analysis); Dave Crocker field notes, stations 1-71, 1972; additional photo lists; notes arranged by geologic unit.
- NO-10621 R.R. Coats. Field notebook with botanical collection notes 101-199 for the Jarbidge quadrangle. Also included are 2 pages of botanical notes for collections made in Colorado. 1952-1955.
- NO-10622 R.R. Coats. Field notebook with botanical collection notes 200-287 for the Jarbidge quadrangle. 1956-1958.
- NO-10623 R.R. Coats, D. C. Alverson. Field notebook with geologic notes and station and sample lists for the Jarbidge quadrangle. 1955, 1965.
- NO-10624 R.R. Coats. Field notebook with geologic notes and station, specimen, and photographic notes for the Jarbidge quadrangle. 1955.
- NO-10625 R.R. Coats. Field notebook with geologic notes and station, specimen, and photographic notes for the Jarbidge, Mountain City, Owyhee, and Wild Horse quadrangles. 1957-1961.

Published as: U.S. Geological Survey. Bulletin 1141-M. 1964.

## **RECONNAISSANCE GEOLOGY OF SOME WESTERN ALEUTIAN ISLANDS, ALASKA. 1954-1984.**

- NO-10646 Expandable envelope with:
- 1 folder of letters, notes, illustrations, diagrams, and 1 aerial photograph related to volcanism on Tanaga Island in the western Aleutians.
  - 1 folder with 12 color slides (35mm) in a protective page, showing aerial views of western Aleutian islands, with several versions of a typed list of

descriptions of each slide.

Published as: U.S. Geological Survey. Bulletin 1028-C. 1956.

### **GEOLOGY OF ELKO COUNTY, NEVADA. 1962-1971.**

- NO-10633 R.R. Coats. Field notebook with geologic, mine, and prospect notes and station, photography, and specimen lists for the Bull Run, Midas, Mount Velma, Mountain City, White Rock 3, and Wildhorse quadrangles, Elko County. 1966.
- NO-10634 R.R. Coats. Field notebook with geologic, mine, and prospect notes and station, photography, geochemical sample, and specimen lists for Elko County. Also included are 20 Polaroid prints in protective sleeves, showing geologic features and outcrop details. 1967-1970.
- NO-10635 R.R. Coats, K. Howard. Field notebook with geologic, mine, and prospect notes for Elko County. Also included is one Polaroid print in a protective sleeve, showing details of a recumbent fold in a rock outcrop. 1962-1964.
- NO-10636 R.R. Coats. Field notebook with geologic, mine, and prospect notes for Elko County. Also included are photography notes and 17 Polaroid prints showing geologic features and outcrop details. 1964-1965.
- NO-10637 R.R. Coats. Field notebook with geologic, drilling record, mine, and prospect notes and station and photography lists for Elko County. 1971.
- NO-10638 Expandable envelope with 5 folders of material on the Ryndon Fault, including aerial photographs, annotated topographic quadrangles, notes, and sketch maps.
- NO-10639 Expandable envelope with 1 folder of sample and specimen-related material, including chemical analysis results, 2 proof sheets of photographic negatives, and 14 Polaroid prints showing details of microscopic thin sections.
- NO-10640 Expandable envelope with 5 folders of sample analysis results and 1 folder of memoranda and copies of draft text pages.
- NO-10641 Expandable envelope with:
- 1 folder of stratigraphic sections;
  - 1 folder of notes and maps on the Jack Creek barite deposit;
  - 1 folder of diagrams and text defining rock units in Elko County;
  - 1 folder of draft illustrations and text pages.
  - 1 folder of notes on stratigraphy in Elko County;
  - 1 folder of annotated aerial photographs of the Hollister thrust fault.

Published as: Nevada Bureau of Mines and Geology. Bulletin 101. 1987.

## **GEOLOGY OF THE MOUNTAIN CITY QUADRANGLE, NEVADA AND IDAHO. 1978-1981.**

- NO-10626 R.R. Coats. Field notebook with geologic, formational unit, station, and photographic notes for the Mountain City quadrangle. Also included are annotated Polaroid prints showing geologic details. 1978-1981.
- NO-10627 Expandable envelope with:
- text and diagrams describing lithologic map units in the Mountain City quadrangle.
  - maps, diagrams, and text related to uranium claims in the Mountain City quadrangle.
  - draft manuscript of a document titled "Description of map units, Mountain City 15' quadrangle, Nevada-Idaho.
  - miscellaneous geologic notes, copies of preliminary geologic illustrations, sample analysis data, and memoranda related to geologic studies of the Mountain City quadrangle

Published as: U.S. Geological Survey. Open-file Report 68-038. 1968.

Published as: U.S. Geological Survey. Open-file Report 84-644. 1984.

Published as: U.S. Geological Survey. Open-file Report 84-684. 1984.

Published as: U.S. Geological Survey. Open-file Report 84-685. 1984.

Published as: U.S. Geological Survey. Open-file Report 84-686. 1984.

## **MASSIVE ZUNYITE ROCK FROM WESTERN ELKO COUNTY, NEVADA. CA. 1979.**

- NO-10645 Expandable envelope with:
- 1 folder with a draft copy of Open-file Report 79-764, titled "Massive Zunyite Rock from Western Elko County, Nevada", with handwritten annotations, dated March 26, 1979.
  - 1 folder with miscellaneous notes, memoranda, draft figures, and research materials related to Open-file Report 79-764.

Published as: U.S. Geological Survey. Open-file Report 79-764. 1979.

**GEOLOGIC STUDIES OF THE BIG ISLAND FORMATION, ELKO COUNTY, NEVADA. CA. 1984.**

- NO-10647 Expandable envelope with:
- 1 folder with 3 copies of a draft manuscript titled "The Big Island Formation, a Miocene formation in northern Elko County, Nevada, and adjacent Idaho, including a consideration of its composition and petrographic character", with handwritten annotations.
  - 1 folder with miscellaneous letters, memoranda, draft figures and diagrams associated with the draft manuscript titled "The Big Island Formation, a Miocene formation in northern Elko County, Nevada, and adjacent Idaho, including a consideration of its composition and petrographic character".

Published as: U.S. Geological Survey. Bulletin 1605-A. 1984.

**MISCELLANEOUS MINERAL AND COMMODITY INVESTIGATIONS.  
NO DATE.**

- NO-10643 Expandable envelope with:
- 1 folder of notes and sample analyses related to worldwide occurrences of selenium in sulfur.
  - 1 folder of notes, memoranda, and data on worldwide occurrences of apatite, with a particular focus on the fossilization of wood through apatite replacement. Also included are 4 photographic negatives and 5 photographic prints of apatite specimens.
  - 1 folder containing a draft manuscript of an article on nitrogen, phosphate, and potassium in agricultural fertilizers.

**GEOLOGIC STUDIES IN THE MARY'S RIVER BASIN, NEVADA.  
NO DATE.**

- NO-10644 Expandable envelope with diagrams and notes describing lithologic units in the Mary's River Basin, Nevada.