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FIELD RECORDS COLLECTION
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DONALD W. PETERSON
(1925 - 2003)

NOTES, CORRESPONDENCE, PAPERS

1953-1999

(2.4 linear ft)

Donald W. Peterson was a native of San Francisco, California. He earned a BS at the California Institute of Technology in 1949, an MS at Washington State University in 1951, and a PhD at Stanford University in 1961. In 1952 Peterson joined the staff of the U.S. Geological Survey in 1952 and remained with the agency until his retirement in 1992. His principle area of study was the geology and petrology of volcanic rocks, with emphasis on Hawaii and southern Arizona. Peterson prepared the first geologic map of the Kilauea Volcano in 1967 and served as Scientist in Charge of both the Hawaii Volcano Observatory and the Cascades Volcano Observatory in the 1970's and 80's. He was a Fellow of the American Association for the Advancement of Science, the Geological Society of America, and the American Geophysical Union. In 1983 Peterson was the recipient of the U.S. Department of the Interior's Meritorious Service Award.

INVENTORY

By

Clay M. Martin

U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
June 2008

Location of Field Notebooks: CS-18 9-10

GEOLOGY OF THE HAUNTED CANYON QUADRANGLE, ARIZONA. 1953-1958.

<u>Item Number</u>	<u>Description</u>
NO-10648	D.W. Peterson. Field notebook with geologic, mine and prospect, survey, measured section, and specimen notes for the Haunted Canyon quadrangle. Most of the first pages of the notebook are concerned with reconnaissance and orientation for the project, including the establishment of survey points for future work. Also included are 2 loose pages of sketches of fossil bivalves. September 29, 1953 through September 8, 1954.
NO-10649	D.W. Peterson. Field notebook with geologic, mine and prospect, survey, measured section, and specimen notes for the Haunted Canyon quadrangle. Also included are notes on ash-flow and dacite deposits in the Globe, Inspiration, and Picketpost 7½-minute quadrangles. June 21 through September 8, 1955.
NO-10650	D.W. Peterson. Field notebook with geologic, mine and prospect, survey, photo, measured section, and specimen notes for the Haunted Canyon quadrangle. August 24, 1956 through May 6, 1957.
NO-10651	D.W. Peterson. Field notebook with geologic, survey, photo, measured section, and specimen notes for the Haunted Canyon quadrangle. Also included are tables of measurements of pumice fragments in dacite at numerous sites. May 27, 1957 through May 5, 1958.

Published as: U.S. Geological Survey. Geologic Quadrangle Map GQ-128. 1960.

GEOLOGY OF THE SUPERIOR QUADRANGLE, ARIZONA. 1958-1961.

NO-10652	D.W. Peterson. Field notebook with geologic, specimen, survey, stratigraphic section, drill core, and photo notes from the Superior quadrangle. Also included are numerous lists of measurements of pumice lapilli and fragments in extrusive rock structures. March 17, 1958 through October 16, 1959.
NO-10653	D.W. Peterson. Field notebook with geologic, specimen, survey, stratigraphic section, and photo notes from the Superior quadrangle. Also included are geologic notes on numerous side trips to other areas of southeast Arizona. April 1, 1960 through October 24, 1961.
NO-10654	D.W. Peterson. Ten loose-leaf notebook pages of geologic, stratigraphic section, and survey notes from the Superior quadrangle. Also included are geologic notes on side trips to Haunted Canyon, the Superstition Mountains, and other areas of southeast Arizona. October 25 through November 4, 1961.

Published as: U.S. Geological Survey. Geologic Quadrangle Map GQ-818. 1969.

Published as: U.S. Geological Survey. Miscellaneous Field Investigations Map MF-253. 1962.

GEOLOGY OF THE TEAPOT MOUNTAIN QUADRANGLE, ARIZONA. 1965-1967.

NO-10655 D.W. Peterson. Field notebook with geologic, mine and prospect, stratigraphic section, drill core, and survey notes from the Teapot Mountain quadrangle. Also included are geologic notes on trips to various other sites in southeastern Arizona, and a loose-leaf sheet of stratigraphic section notes noted as being in "Creasey's writing, clipped to 8/19/65 page" (presumably project leader Saville C. Creasey,). July 28, 1965 through November 9, 1967.

Published as: U.S. Geological Survey. Open-file Report 75-314. 1975.

Published as: U.S. Geological Survey. Geologic Quadrangle Map GQ-1559. 1975.

GEOLOGIC STUDIES OF THE TERTIARY GRAVELS OF THE SIERRA NEVADA, CALIFORNIA. 1966.

NO-10656 D.W. Peterson. Field notebook with geologic, gravel sample, mine, photo, and survey notes from the Emigrant Gap 15' quadrangle and the Alleghany, Camptonville, Graniteville, Nevada City, and North Bloomfield 7 ½ minute quadrangles, California. September 20, 1966, through September 9, 1967.

GEOLOGY OF THE KILAUEA CRATER QUADRANGLE, HAWAII. 1966.

NO-10657 D.W. Peterson. Field Notebook with geologic and photo notes for the Kilauea Crater quadrangle, Hawaii. January 5 through March 8, 1966.

Published as: U.S. Geological Survey. Geologic Quadrangle Map GQ-667. 1967.

GEOLOGIC STUDIES OF VOLCANIC ACTIVITY IN HAWAII. 1970-1979.

NO-10658 D.W. Peterson. Field notebook with field sketches and geologic, survey, sample, and photo notes from the Mauna Ulu, Alae, Kealakomo, Kilauea, and Makaopuhi volcano areas, Hawaii. September 8, 1970 through August 27, 1972.

NO-10659 D.W. Peterson. Field notebook with field sketches, geologic notes, and photo

records from the Alae, Mauna Ulu, and Makaopuhi volcano areas, Hawaii. September 7, 1972 through February 23, 1973.

- NO-10660 D.W. Peterson. Field notebook with field sketches and geologic, sampling, and photo notes from the Alae, Mauna Ulu, Pauahi, and Kapoho volcano areas, Hawaii. February 28 through December 16, 1973.
- NO-10661 D.W. Peterson. Field notebook with field sketches, geologic notes, and photo records from the Mauna Ulu, Pauahi, and Pu'u Huluhulu volcano areas, Hawaii. Also included are notes from side trips to Nanawale Bay and Cape Kumukahi to examine historic lava flows. December 17, 1973 through May 30, 1974.
- NO-10662 D.W. Peterson. Field notebook with field sketches, geologic notes, and photo records from the Mauna Ulu, Alae, and Kealakomo volcano areas, Hawaii. Also included are notes from a visit to Ainahou Cave to observe lava tube structures. June 25, 1974 through July 30, 1979.

Published as: U.S. Geological Survey. Open-File Report 74-239. 1974.

Published as: U.S. Geological Survey. Natural Hazards on the Island of Hawaii Map. 1976.

MINERAL RESOURCE POTENTIAL OF THE SUPERSTITION WILDERNESS, ARIZONA. 1975-1979.

- NO-10663 D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Goldfield, Horse Mesa Dam, Iron Mountain, Mormon Flat Dam, Pinyon Mountain, Two Bar Mountain, and Weavers Needle 7 ½' quadrangles, Arizona. April through November, 1975.
- NO-10664 W. Yeend and D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Goldfield, Haunted Canyon, Horse Mesa Dam, Iron Mountain, Mormon Flat Dam, Pinyon Mountain, Two Bar Mountain, and Weavers Needle 7½' quadrangles, Arizona. October through November, 1976. Also included are field notes from Yeend's geologic work in the Sierra Nevada, Mammoth Lakes, Mono Lake, and Bodie areas, California, August, 1975.
- NO-10665 N. Suneson and D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Superstition Wilderness, Arizona. October through November, 1975.
- NO-10666 K. Stark and D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Superstition Wilderness, Arizona. October through November, 1975.
- NO-10667 D. Gaskill and D.W. Peterson. Field notebook with geologic, specimen, and photo

notes from the Goldfield, Iron Mountain, Pinyon Mountain, Two Bar Mountain, and Weavers Needle 7½' quadrangles, Arizona. October 1975 through October 1976.

NO-10668 M.L. Sorenson and D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Superstition Wilderness, Arizona. October 1975 through November 1976.

NO-10669 D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Goldfield, Haunted Canyon, Iron Mountain, Mormon Flat Dam, Pinyon Mountain, Two Bar Mountain, and Weavers Needle 7½' quadrangles, Arizona. October through November, 1976.

NO-10670 M.L. Sorenson and D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Superstition Wilderness, Arizona. November, 1976.

NO-10671 D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Florence Junction, Goldfield, Horse Mesa Dam, Inspiration, Iron Mountain, Mormon Flat Dam, Picketpost Mountain, Superior, Superstition Mountains Southwest, Two Bar Mountain, and Weavers Needle 7½' quadrangles, Arizona. Also included are notes on a side trip to the Pinal Mountains to examine outcrops of Madera diorite. October through November, 1977.

NO-10672 D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Goldfield, Horse Mesa Dam, Mormon Flat Dam, and Weavers Needle 7½' quadrangles, Arizona. September through October, 1979.

Published as: U.S. Geological Survey. Open-File Report 83-885. 1983.

Published as: U.S. Geological Survey. Professional Paper 1300. 1984.

GEOLOGIC STUDIES OF THE PAPAGO RESERVATION AND AJO AREA, ARIZONA. 1978-1980.

NO-10673 D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Cimarron Peak and Sikort Chuapo 7½' quadrangles, Arizona. March through May, 1978.

NO-10674 Thomas Young and D.W. Peterson. Field notebook with geologic, specimen, and photo notes from the Cimarron Peak and Sikort Chuapo 7½' quadrangles, Arizona. March through May, 1978.

NO-10675 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for the Diaz Peak, Hat Mountain, Kaka, and Mount Ajo 7½' quadrangles, Arizona. March through April, 1979.

NO-10676 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for the Diaz Peak, Hat Mountain, Kaka, and Mount Ajo 7½' quadrangles, Arizona. April through May, 1979; April 1980.

NO-10677 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for the Agua Dulce, Diaz Peak, Kaka, Kino Peak, Lukeville, Mount Ajo, and Quitobaquito Springs 7½' quadrangles, Arizona. March through April, 1980.

MISCELLANEOUS GEOLOGIC FIELD TRIP NOTES, 1981-1997.

NO-10678 D.W. Peterson. Field notebook with geologic notes and field sketches from a trip to the Cascade Range, Washington and Oregon in July, 1981.

NO-10679 D.W. Peterson. Field notebook with field sketches and geologic and meeting notes from a volcano workshop in June, 1984; a workshop on explosive volcanism in Randle, Washington in August, 1984; and a trip to Yellowstone National Park, Wyoming, in September, 1984.

NO-10680 D.W. Peterson. Field notebook with field sketches and geologic notes from trips to Mount St. Helens, Washington, in March, May, and August, 1984.

NO-10681 D.W. Peterson. Field notebook with field sketches and geologic notes from trips to Mount Vesuvius, Italy in August and September, 1991, and Mazatlan, Mexico, in January 1997.

GEOLOGY OF THE TERTIARY VOLCANIC ROCKS OF ARIZONA. 1986-1999.

NO-10682 D.W. Peterson. Field notebook with geologic and photo notes for project work on the Apache Junction, Dagger Peak, Florence Junction, Goldfield, Horse Mesa Dam, Mormon Flat Dam, Rockinstraw Mountain, Superior, Superstition Mountains Southwest, and Weavers Needle 7½' quadrangles, Arizona. Also included are notes on a trip to Hawaii in January, 1987, and a trip to the San Carlos Indian Reservation and northeastern Arizona. November, 1986, through May, 1987.

NO-10683 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for project work on the Apache Junction, Buckhead Mesa, Chandler Hts, Florence Junction, Goldfield, Globe, Hackberry Mountain, Horse Mesa Dam, Inspiration, Lion Mountain, Mormon Flat Dam, Mormon Lake, Pine, Promontory Butte, Reno Pass, Sacaton, Stoneman Lake, Strawberry, Superior, Superstition Mountains

Southwest, Verde Hot Springs, and Weavers Needle 7½' quadrangles, Arizona. October, 1987 through May, 1988.

- NO-10684 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for project work on the Apache Junction, Florence Junction, Goldfield, Horse Mesa Dam, Mormon Flat Dam, New River Mesa, Superior, Superstition Mountain Southwest, and Weavers Needle 7½' quadrangles, Arizona. October, 1988 through April, 1989.
- NO-10685 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for project work on the Goldfield, Haunted Canyon, Inspiration, Mormon Flat Dam, Rockinstraw Mountain, Salt River Peak, Two Bar Mountain, and Weavers Needle 7½' quadrangles, Arizona. October-November, 1989.
- NO-10686 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for project work on the Goldfield, Haunted Canyon, Mormon Flat Dam, Pinal Ranch, Rockinstraw Mountain, Salt River Peak, Superior, Two Bar Mountain, and Weavers Needle 7½' quadrangles, Arizona. November, 1990 through April, 1992.
- NO-10687 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for project work on the Goldfield, Horse Mesa Dam, Iron Mountain, Mormon Flat Dam, Stewart Mountain, and Weavers Needle 7½' quadrangles, Arizona. April, 1992 through November, 1993.
- NO-10688 D.W. Peterson. Field notebook with geologic, specimen, and photo notes for project work on the Goldfield, Mormon Flat Dam, and Weavers Needle 7½' quadrangles, Arizona. October-November, 1994. Also included are notes from a trip to the same area in April, 1999.

Published as: U.S. Geological Survey. Circular 1103-A. 1994.

Published as: New Mexico Bureau of Mines and Mineral Resources. Report no. 131. 1989.