



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

HARALD DREWES
(1927 -)

NOTES, CORRESPONDENCE, PAPERS

1949 - 1991

(3.0 linear ft. and 26 map folders)

Harald D. Drewes was born in Dessau, Germany, in 1927. He received his B.A. from Washington University, St. Louis in 1952 and his M.S. and Ph.D. from Yale University in 1953 and 1954. Drewes served in the U.S. Army from 1946 to 1948 and as a field assistant for the USGS from 1949 to 1951 before joining the agency's staff in 1954. He remains in emeritus status following his 1996 retirement. His areas of investigation include structural and igneous geology, with field studies focusing on Arizona, New Mexico, California, Nevada, Mexico, and Pakistan. Drewes is a fellow of the Geological Society of America, a member of the Colorado Scientific Society and the Deutsche Geologische Gesellschaft, and a board member of the Friends of Dinosaur Ridge. His professional recognitions include Gilbert Fellowships and a Bradley Award from the USGS.

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
September 2002/December 2009

Location of Field Notebooks: CS 10-9,10

GEOLOGIC INVESTIGATIONS IN THE WESTERN ALEUTIAN ISLANDS, ALASKA. 1949-1950.

<u>Item Number</u>	<u>Description</u>
NO-11145	Harald Drewes. Field notebook with geologic notes related to field investigations of Attu Island, Alaska. 1949.
NO-11146	Harald Drewes. Field notebook with geologic notes related to field investigations of Attu and Shemya Islands, Alaska. 1949.
NO-11147	Harald Drewes. Field notebook with geologic notes related to field investigations of Attu, Agattu, and Shemya Islands, Alaska. 1950.
NO-11148	Harald Drewes. Field notebook with geologic notes related to field investigations of Attu, Agattu, and Shemya Islands, Alaska. These notes appear to be a revised, expanded version of the notes in NO-11147. 1950.
NO-11149	Envelope with four maps: <ul style="list-style-type: none">- Topographic map of western Agattu Island, Near Islands Group, Aleutian Islands, Alaska, with extensive geologic annotations.- Topographic map of eastern Agattu Island, Near Islands Group, Aleutian Islands, Alaska, with extensive geologic annotations.- Two copies of a topographic map of Attu Island, Near Islands Group, Aleutian Islands, Alaska, One copy is unmarked; the second has extensive annotations.

Published as: U.S. Geological Survey. Bulletin 1028-U. 1971.

GEOLOGY OF THE GRAND VIEW MINE AND VICINITY, INYO COUNTY, CALIFORNIA. 1955.

NO-11150	Harald Drewes. Field notebook with notes, sketch maps, and records related to geologic investigations of the Grand View Mine and vicinity near Ryan, Inyo County, California. November 1955.
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GEOLOGY OF THE FUNERAL PEAK AND BENNETTS WELL 15' QUADRANGLES, INYO COUNTY, CALIFORNIA. 1955-1958.

NO-00880	Harald Drewes. Field notebook 1 with geologic and stratigraphic notes and sketches related to field investigations in the Coffin Canyon, Copper Canyon, and Dantes View areas, Funeral Peak 15' quadrangle, California, and the Badwater area, Bennetts Well 15' quadrangle, Death Valley, California. 1956.
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- NO-00881 Harald Drewes. Field notebook 2 with geologic, structural, and stratigraphic notes and sketches related to field investigations of the Funeral Peak 15' quadrangle, Death Valley, California. 1956.
- NO-00882 Harald Drewes. Field notebook 3 with geologic, structural, and stratigraphic notes and sketches related to field investigations of the. Funeral Peak, Sheep Canyon, and Smith Mountain areas, Funeral Peak 15' quadrangle, California; the Mormon Point area, Bennetts Well 15' quadrangle, California; the Ashford Canyon area, Confidence Hills 15' quadrangle, California; and the Sharp Peak area (location uncertain), Death Valley, California. 1956.
- NO-00883 Harald Drewes. Field notebook 4 with geologic, structural, and stratigraphic notes and sketches related to field investigations of the. Dantes View area, Funeral Peak 15' quadrangle, California; the Mormon Point area, Bennetts Well 15' quadrangle, California; and the Hallucination Mountain and Wusky Peak areas (location uncertain), Death Valley, California. 1957.
- NO-00884 Harald Drewes. Loose pages from field notebook 5 with geologic, structural, and stratigraphic notes and sketches related to field investigations of the Coffin Canyon, Dantes View, and Greenwater Range areas, Funeral Peak 15' quadrangle, California; the Mormon Point area, Bennetts Well 15' quadrangle, California; and the Hidden Spring area (location uncertain), Death Valley, California. 1958.
- MA-02925 Map folder with 11 items:
- 10 plane table sheets made from enlarged reproductions of the Bennetts Well, Funeral Peak, and Telescope Peak 15' quadrangles, California, with extensive geologic annotations.
 - Geologic map of the Hidden Spring area of the Funeral Peak 15' quadrangle, California, used as the base for Plate 2 of USGS Professional paper 413.

Published as: U.S. Geological Survey. Professional paper 413. 1963.

GEOLOGY OF THE ASH MEADOWS 15' QUADRANGLE, INYO COUNTY, CALIFORNIA. 1958.

- NO-08905 Harald Drewes. Field notebook pages with geologic and stratigraphic notes and sketches related to bedrock mapping of the Ash Meadows 15' quadrangle, Death Valley, California. Localities include northern and southern Bat Mountain and western Shadow Mountain. April 1958.

Published as: U.S. Geological Survey. Bulletin 1181-L. 1965.

GEOLOGY OF THE CONNORS PASS QUADRANGLE, WHITE PINE COUNTY, NEVADA. 1958-1961.

- NO-02891 Harald Drewes. Field notebook 1 with geologic, stratigraphic, and structural notes and sketches related to field investigations in the Schell Creek Range. Localities include the Beaver Creek, Cleve Creek, Connors Pass, Cooper Canyon, Cougar Ridge, Kolcheck Fork, and Wheeler Peak areas, Connors Pass 15' quadrangle, Nevada. 1958.
- NO-02892 Harald Drewes. Field notebook 2 with geologic, stratigraphic, and structural notes and sketches related to field investigations in the Basque Ranch, Bastain Peak, Bastain Spring, Connors Pass, Cooper Basin, Cooper Canyon, Majors Place, Mount Taylor, Steptoe Creek, and Two Cave Valley areas, Connors Pass 15' quadrangle, Nevada. Also included is a list data related to fossil samples taken in the Schell Creek Range. 1959.
- NO-02893 Harald Drewes. Field notebook 3 with geologic, stratigraphic, and structural notes and sketches related to field investigations in the vicinity of Cooper Canyon, Majors Place, and an area east of Majors Place in the southeast corner of the Connors Pass 15' quadrangle, Nevada. 1959.
- NO-02894 Harald Drewes and J.O. Gallagher. Field notebook 4 with geologic, stratigraphic, structural, and fossil notes and sketches related to field investigations in the Connors Pass 15' quadrangle, Nevada. 1959.
- NO-02895 Harald Drewes. Field notebook 5 with geologic, stratigraphic, and structural notes and sketches related to field investigations in the Bastian Peak, Cave Creek, Cave Spring, Cleve Creek, Connors Pass, Cooper Wash, Steptoe Canyon, Success Summit, and Taylor areas, Connors Pass 15' quadrangle, Nevada. Also included are notes from a reconnaissance trip to the Duck Creek Range, Nevada. 1960.
- NO-02896 Harald Drewes. Field notebook 6 with geologic, stratigraphic, and structural notes and sketches related to field investigations in the Bastian Peak, Cave Creek, Grasshopper Canyon, Steptoe Creek, and Taylor areas, Connors Pass 15' quadrangle, Nevada. Also included are notes from the Success Summit and Water Canyon areas, Schell Peaks 15' quadrangle, Nevada; the Lehman Caves area, Wheeler Peak 15' quadrangle, Nevada; and the Northern Snake Range, Sacramento Pass 15' quadrangle, Nevada. 1960.
- NO-02897 Harald Drewes. Field notebook 7 (mislabeled Book 8 on cover) with geologic, stratigraphic, and structural notes and sketches related to field investigations in the Camel Mountain, Cave Creek, Cleve Creek, Connors Pass, Cooper Basin, Cooper Canyon, Grasshopper Canyon, Kolcheck Mine, Majors Place, Mosier Canyon, Steptoe Creek, Tamberlaine Canyon, Taylor District, and Taylor Peak areas, Connors Pass 15' quadrangle, Nevada. Also included are notes from the Egan Range, Comins Lake 7.5' quadrangle, Nevada. 1961.

- MA-02926 Map folder with 10 items:
- Eight reproductions of portions of the Connors Pass 15' quadrangle, Nevada, with geologic annotations.
 - One reproduction of a portion of the Schell Peaks 15' quadrangle, Nevada, with geologic annotations.
 - One reproduction of a portion of the Comins Lake 7.5' quadrangle, Nevada, with geologic annotations.

Published as: U.S. Geological Survey. Professional paper 557. 1967.

GEOLOGIC STUDIES NEAR THE MEXICAN BORDER IN ARIZONA, NEW MEXICO, CHIHUAHUA, AND SONORA. 1962-1988.

- NO-11151 Field notebook 1 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. March-November 1962.
- NO-11152 Field notebook 2 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. November 1962-March 1963.
- NO-11153 Field notebook 3 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. March-November 1963.
- NO-11154 Field notebook 4 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. November 1963-November 1964.
- NO-11155 Field notebook 5 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. November 1964-May 1965.
- NO-11156 Field notebook 6 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. October 1965-March 1966.
- NO-11157 Field notebook 7 with notes, sketch maps, and records related to field investigations in the Mount Wrightson 15' quadrangle, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. March-April 1966.
- NO-11158 Field notebook 8 with notes, sketch maps, and records related to field investigations in the Mount Wrightson and Sahuarita 15' quadrangles, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. November 1966-April 1967.

- NO-11159 Field notebook 9 with notes, sketch maps, and records related to field investigations in the Mount Wrightson and Sahuarita 15' quadrangles, Santa Rita Mountains, Pima and Santa Cruz Counties, Arizona. April 1967-April 1968.
- NO-11160. Field notebook 10 with notes, sketch maps, and records related to geologic reconnaissance trips in Arizona in 1968 and 1969, including:
- Santa Rita Mountains, Pima and Santa Cruz Counties. April 1968.
 - Rincon Mountains-Colossal Cave-Happy Valley area, Pima County. April, November 1968, March, April 1969.
 - Patagonia Mountains, Santa Cruz County. April 1968.
 - Peloncillo Mountains, Cochise County. October 1968.
 - Pedregosa Mountains, Cochise County. October 1968.
 - Swisshelm Mountains, Cochise County. October 1968.
 - Empire Mountains, Pima County. November 1968.
 - Babocomari Ranch, Santa Cruz County. November 1968.
 - Portal area, Cochise County. November 1968.
 - Winkleman area, Gila County. March 1969.
 - Dragoon Mountains, Cochise County. April 1969.
 - Silver Bell Mountains, Pima County. April 1969.
 - Dos Cabezas Mountains, Cochise County. October 1969.
- NO-11161 Field notebook 11 with notes, sketch maps, and records related to geologic reconnaissance trips in Arizona in 1969 and 1970, including:
- Dos Cabezas Mountains, Cochise County. October 1969.
 - The Happy Valley, Rincon Mountains, Saguaro National Monument, Tucson, and Twin Buttes areas, Pima County. October, November 1969, May 1970.
 - The Three-R Canyon and Nogales areas, Santa Cruz County. November 1969, March 1970.
 - Slate Mountains, Pinal County. November 1969.
- NO-11162 Field notebook 12 with notes, sketch maps, and records related to geologic investigations and field trips in Arizona in 1971 and 1972, including:
- Chiricahua Mountains and San Pedro Valley, Cochise County, October, November 1970, April 1971.
 - Happy Valley, Rincon Mountains, and Colossal Cave, Pima County. April 1971, April 1972.
- NO-11163 Field notebook 13 with notes, sketch maps, and records related to geologic investigations and field trips in Arizona in 1971 and 1972, including the Benson, Bisbee, Chiricahua Mountains, College Peaks, Dragoon Mountains, Mule Mountains, Pedregosa Mountains, San Bernardino Valley, and Swisshlem Mountains areas, Cochise County, and the Happy Valley, Rincon Mountains, and Sierrita Mountains areas, Pima County.
- NO-11164 Field notebook 14 with notes, sketch maps, and records related to geologic

investigations and field trips in the Rincon, Santa Rita, and Tucson Mountains, Arizona. 1972- 1974.

- NO-11165 Field notebook 15 with notes, sketch maps, and records related to geologic investigations, field trips, and meetings in Arizona and New Mexico in 1974 and 1975, including:
- The Chiricahua Mountains, Courtland, Douglas, Dragoon Mountains, Huachuca Mountains, Pat Hills, Pedregosa Mountains, Peloncillo Mountains, Swisshlem Mountains, Tombstone Hills, and Winchester Mountains areas, Cochise County, Arizona.
 - The Rincon Mountains and Tucson Mountain, Pima County, Arizona.
 - The Amado area, Santa Cruz County, Arizona.
 - The Animas Mountains, Little Hatchet Mountains, Peloncillo Mountains, and Pyramid Mountains, Hidalgo County, New Mexico.

- NO-11166 Field notebook 16 with notes, sketch maps, and records related to geologic investigations, field trips, and meetings in Arizona and New Mexico in 1976 and 1977, including:
- Rincon Mountains, Pima County, Arizona. June 1975
 - Tucson Mountains, Pima County, Arizona. June 1975.
 - Various southeastern Arizona localities with a class of geology students. June 1975.
 - Pyramid Mountains, Hidalgo County, New Mexico. October, November 1975, March, April, October 1976.
 - Peloncillo Mountains, Cochise County, Arizona and Hidalgo County, New Mexico. October, November 1975, March, October 1976.
 - Hermosillo, Sonora, Mexico, for geology symposiums. November 1975, March 1976.
 - Huachuca Mountains, Cochise County, Arizona. November 1975.
 - Tombstone Hill, Cochise County, Arizona. November 1975.
 - Coyote Hills and Brockman Mine area, Grant and Hidalgo Counties, New Mexico. November 1975, October 1976.
 - Summit Hills, Hidalgo County, New Mexico. November 1975.
 - South Mule Mountains, Grant County, New Mexico. March 1976.
 - Chiricahua Mountains, Cochise County, Arizona. March 1976.

- NO-11167 Field notebook 17 with notes, sketch maps, and records related to geologic investigations, field trips, and meetings in Arizona and New Mexico in 1976 and 1977, including:
- Peloncillo Mountains, Cochise County, Arizona and Hidalgo County, New Mexico. October, November 1976, April 1977.
 - Chiricahua Mountains, Cochise County, Arizona. November 1976, April 1977.
 - Pyramid Mountains, Hidalgo County, New Mexico. November 1976, April, May, October 1977.
 - Rincon Mountains, Pima County, Arizona. April, May 1977.

- Mule Mountains, Cochise County, Arizona. April 1977.
- Tucson Mountains, Pima County, Arizona. May 1977.
- Cedar Mountains, Luna County, New Mexico. May 1977.
- Grandmother Mountains, Luna County, New Mexico. October 1977.
- Florida Mountains, Luna County, New Mexico. October 1977.
- Victorio Mountains, Luna County, New Mexico. October 1977.

NO-11168 Field notebook 18 with notes, sketch maps, and records related to geologic investigations, field trips, and meetings in Arizona, New Mexico, and Mexico in 1978 and 1979, including:

- Chiricahua Mountains, Cochise County, Arizona. April, October 1978, April 1979.
- Peloncillo Mountains, Cochise County, Arizona and Hidalgo County, New Mexico. April, November 1978, April 1979.
- The Caborca, Sonora, Mexico area. April 1978.
- Rincon Mountains, Pima County, Arizona. November 1978.
- The Yuma area, Yuma County, Arizona. January 1979.

NO-11169 Field notebook 19 with notes, sketch maps, and records related to geologic investigations, field trips, and meetings in Arizona in 1979 and 1980, including:

- Peloncillo Mountains, Cochise County, Arizona and Hidalgo County, New Mexico. April 1979.
- Chiricahua Mountains, Cochise County, Arizona. April 1979.
- Dos Cabezas Mountains, Cochise County, Arizona. April, October, November 1979, November 1980.
- Dragoon Mountains, Cochise County, Arizona. October 1980.

NO-11170 Field notebook 20 with notes and sketch maps related to geologic investigations, field trips, and meetings in Arizona and New Mexico, 1980-1982, including:

- Dragoon Mountains, Cochise County, Arizona. November 1980, March 1981.
- Animas Mountains, Hidalgo County, New Mexico. November 1980, April 1981.
- Dos Cabezas Mountains, Cochise County, Arizona. March, April 1981.
- Gunnison Hills, Cochise County, Arizona. April 1981, April 1982.
- Two trips to southeastern Arizona and southwestern New Mexico to compile road log data for a Rocky Mountain Association of Geologists field trip. August, September 1981, February 1982..

NO-11171 Field notebook 21 with notes, sketch maps, and records related to geologic investigations in Arizona and New Mexico, primarily in the Dragoon and Pedregosa Mountains, Cochise County, Arizona, and the Animas Mountains, Hidalgo County, New Mexico. Also included are notes on the Swisshelm Mountains, Cochise County, Arizona, and the Little Hatchet Mountains, Hidalgo County, New Mexico. 1982-1983.

NO-11172 Field notebook 22 with notes, sketch maps, and diagrams related to miscellaneous

geologic investigations, field trips, and meetings in Arizona, New Mexico, and Texas, including:

- El Paso, Texas (University of Texas at El Paso). October 1983.
- The Sierra Boca Grande area, Chihuahua, Mexico. October 1983.
- The Leslie Canyon area near Douglas, Arizona. October 1983.
- The East Potrillo Mountains, Dona Ana County, New Mexico. October-November 1983.
- Various other mountain ranges in southwestern New Mexico and southern Arizona. Fall 1983-Spring 1984.

NO-11173 Harald Drewes. Field notebook with notes, sketch maps, and records related to geologic investigations of the Big Hatchet Mountains. Spring 1985. Also included are notes on a trip to the Granite Wash Mountains, La Paz County, Arizona. March 1984.

NO-11174 Harald Drewes. Field notebook 23 with notes, sketch maps, and records related to miscellaneous geologic investigations in Arizona, New Mexico, Texas, and Mexico, including:

- The Colorado Canyon area of the Rio Grande, Presidio County, Texas. October 1984.
- East Potrillo Mountains, Dona Ana County, New Mexico. October 1984, April 1985.
- The Big Hatchet Mountains, Hidalgo County, New Mexico. October 1984, April, October 1985.
- The Dos Cabezas Mountains Wilderness Study Area, Cochise County, Arizona. October 1984.
- The Apache Hills-Doyle Peak area, Hidalgo County, New Mexico. October 1984.
- Kuykendall Ranch-Swisshelm Mountains area, Cochise County, Arizona. October-November 1984, April 1985.
- Chihuahua and Sonora, Mexico. October 1984.
- The Socorro area, New Mexico. April 1985.
- The El Paso area, Texas. June, October 1985.

NO-11175 Harald Drewes. Field notebook 25 with notes and sketches related to miscellaneous geologic investigations in New Mexico, Arizona, and Texas, as noted on cover:

- Big Hatchet Mountains, Hidalgo County, New Mexico. Springs 1986.
- Swisshelm Mountains, Cochise County, Arizona. Spring 1986.
- El Paso, Texas area. 1986-1987.
- Big Hatchet Mountains-Sierra Rica area, Hidalgo County, New Mexico. Fall 1986.
- Harcuvar Mountains, La Paz County, Arizona. Spring 1987.
- "Namibian Class". Summer 1987.
- "Road Logging", Arizona. Fall 1987.
- Portal area, Cochise County, Arizona. Spring 1988.

- NO-11176 E.N. Heinrichs and Harald Drewes. Field notebook pages with geologic notes related to field investigations of the Harcuvar Mountains, La Paz County, Arizona. 1987.
- NO-11177 Expandable envelope with five annotated aerial photographs of the northern Huachuca Mountains, Cochise County, Arizona. 1958.
- NO-11178 Expandable envelope with 44 aerial photos (some with annotated overlays) and six photomosaic indexes related to field investigations of the Big Hatchet Mountains. 1976.
- NO-11179 Envelope with three unannotated aerial photographs of the Big Hatchet Mountains. 1976.
- NO-11180 Envelope with draft legend for a geologic map of the Big Hatchet Mountains. 1985.
- MA-02901 Map folder with six maps of the Apache Hills-Sierra Rica area, Hidalgo County, New Mexico:
- Three partial copies, reproduced on drafting film, of the Doyle Peak 7.5' quadrangle, New Mexico, with geologic annotations.
 - One partial copy, reproduced on drafting film, of the Victoria Ranch 7.5' quadrangle, New Mexico, with geologic annotations.
 - One partial copy, reproduced on drafting film, of the Hatchet Ranch 7.5' quadrangle, New Mexico, with geologic annotations.
 - Copy of the 1:50,000 scale Mexican quadrangle map Los Moscos, with annotations.
- MA-02902 Map folder with 13 maps of the Pedregosa and Swisshelm Mountains, Cochise County, Arizona:
- One copy each of the College Peaks and Pedregosa Mountains 15' quadrangles, Arizona, with geologic annotations.
 - One composite geologic map of part of the Swisshelm Mountains, Cochise County, Arizona.
 - Two partial copies, reproduced on paper with drafting film overlays, of the Chiricahua Peak 15' quadrangle, Arizona, with geologic annotations.
 - One partial copy, reproduced on paper with drafting film overlay, of the College Peaks 15' quadrangle, Arizona, with geologic annotations.
 - Six partial copies, reproduced on drafting film, of the Pedregosa Mountains 15' quadrangle, Arizona, with geologic annotations.
 - One composite map, on paper, composed of partial copies of the Chiricahua Peak and Portal 15' quadrangles, Arizona, with geologic annotations.
- MA-02903 Map folder with 12 maps of the Big Hatchet Mountains, Hidalgo County, New Mexico:

- One copy each of the Cabin Wells and Sheridan Canyon 7.5' quadrangles, New Mexico, with geologic annotations.
- Three partial copies, reproduced on drafting film, of the Big Hatchet Peak 7.5' quadrangle, New Mexico, with geologic annotations.
- One partial copy, reproduced on drafting film, of the Hatchet Ranch 7.5' quadrangle, New Mexico, with geologic annotations.
- One partial copy, reproduced on drafting film, of the Sheridan Canyon 7.5' quadrangle, New Mexico, with geologic annotations.
- One partial copy, reproduced on drafting film, of the Pierce Peak 7.5' quadrangle, New Mexico, with geologic annotations.
- One composite map, on drafting film, composed of partial copies of the Hatchet Ranch and Sheridan Canyon 7.5' quadrangles, New Mexico, with geologic annotations.
- One composite map, on drafting film, composed of partial copies of the Big Hatchet Peak and Hatchet Ranch 7.5' quadrangles, New Mexico, with geologic annotations.
- One composite map, on drafting film, composed of partial copies of the Sheridan Canyon and U Bar Ridge 7.5' quadrangles, New Mexico, with geologic annotations.
- One composite map, on drafting film, composed of partial copies of the Big Hatchet Peak, Hatchet Ranch, Sheridan Canyon, and U Bar Ridge 7.5' quadrangles, New Mexico, with geologic annotations.

MA-02904 Map folder with 11 maps of the Swisshelm Mountains, Cochise County, Arizona:

- Two copies of the Swisshelm Mountain 15' quadrangle, Arizona, with geologic annotations.
- One copy of the Squaretop Hills 15' quadrangle, Arizona, with geologic annotations.
- One copy of the Pedregosa Mountains 15' quadrangle, Arizona, with geologic annotations.
- Five partial copies of the Swisshelm Mountain 15' quadrangle, Arizona, with geologic annotations.
- One composite map, on drafting film, composed of partial copies of the Swisshelm Mountains and Pedregosa Mountains 15' quadrangles, Arizona, with geologic annotations.
- One geologic map of the southern Swisshelm Mountains.

MA-02905 Map folder with 13 maps of the Harcuvar Mountains, La Paz County, Arizona, With geologic mapping by E.N. Hinrichs and Ed DeWitt under the supervision of H.D. Drewes:

- Two copies of the Alamo Dam SE 7.5' quadrangle, Arizona, with geologic annotations. Note: Both maps bear the quadrangle's preliminary name "Buckskin Mtns East SE".
- One copy of the Webber Canyon 7.5' quadrangle, Arizona, with geologic annotations. Note: The map bears the quadrangle's preliminary names "Gladden NW" and "Harquahala Mtns NW".

- Two copies of the Cunningham Pass 7.5' quadrangle, Arizona, with geologic annotations. Note: Both maps bear the quadrangle's preliminary name "Harcuvar NE".
- Three copies of the Smith Peak 7.5' quadrangle, Arizona, with geologic annotations.
- Two copies of the E.C.P. Peak 7.5' quadrangle, Arizona, with geologic annotations.
- One partial copy of the Alamo Dam SE 7.5' quadrangle, with geologic annotations.
- One partial copy of the Webber Canyon 7.5' quadrangle, with geologic annotations.
- One composite map composed of partial copies of the Alamo Dam SE and Cunningham Pass 7.5' quadrangles, Arizona, with geologic annotations.

MA-02906 Map folder with 14 maps of the Rincon Mountains, Pima County, Arizona:

- Four copies of the Rincon Valley 15' quadrangle, Arizona, with geologic annotations.
- Two copies of the Happy Valley 15' quadrangle, Arizona, with geologic annotations.
- Eight partial reproductions of the Rincon Valley 15' quadrangle, with geologic annotations.
- One partial reproduction of the Happy Valley 15' quadrangle, with geologic annotations.

MA-02907 Map folder with nine maps of the Rincon Mountains, Pima County, Arizona:

- Four copies of the Bellota Ranch 15' quadrangle, Arizona, with geologic annotations.
- Two copies of the Redington 15' quadrangle, Arizona, with geologic annotations.
- Three partial reproductions of the Bellota Ranch 15' quadrangle, with geologic annotations.

MA-02908 Map folder with eight maps of the Dos Cabezas Mountains, Cochise County, Arizona:

- One copy of the Luzena 7.5' quadrangle, Arizona, with geologic annotations.
- Two partial reproductions of the Luzena 7.5' quadrangle, with geologic annotations.
- Five partial reproductions of the Railroad Pass 7.5' quadrangle, Arizona, with geologic annotations.

MA-02909 Map folder with 4 maps of the Peloncillo Mountains, Cochise County, Arizona, and Hidalgo County, New Mexico, and the Chiricahua Mountains, Cochise County, Arizona:

- One copy of the San Simon 15' quadrangle, Arizona and New Mexico, with geologic annotations.
- One copy of the Vanar 15' quadrangle, Arizona and New Mexico, with

- geologic annotations.
 - One copy of the Mondel 7.5' quadrangle, New Mexico, with geologic annotations.
 - One copy of the Summit 7.5' quadrangle, New Mexico, with geologic annotations.
- MA-02910 Map folder with 14 maps of the Rincon Mountains, Pima County, Arizona:
- One copy of the Happy Valley 15' quadrangle, Arizona, with geologic annotations.
 - Thirteen partial reproductions of the Happy Valley 15' quadrangle, with geologic annotations.
- MA-02911 Map folder with 14 maps of the Pyramid and Animas Mountains, Hidalgo County, New Mexico:
- Two copies of the Lordsburg 7.5' quadrangle, New Mexico, with geologic annotations.
 - Two copies of the Gary 7.5' quadrangle, New Mexico, with geologic annotations.
 - One copy of the Swallow Fork Peak 7.5' quadrangle, New Mexico, with geologic annotations.
 - One copy of the Table Top Mountain 7.5' quadrangle, New Mexico, with geologic annotations.
 - One copy of the Pyramid Peak 7.5' quadrangle, New Mexico, with geologic annotations.
 - One copy of the South Pyramid Peak 7.5' quadrangle, New Mexico, with geologic annotations.
 - One copy of the Ninemile Hill 7.5' quadrangle, New Mexico, with geologic annotations.
 - Two partial reproductions of the Beacon Hill, 7.5' quadrangle, New Mexico, with geologic annotations.
 - Three partial reproductions of the Whitmire Pass 7.5' quadrangle, New Mexico, with geologic annotations.
- MA-02912 Map folder with 22 maps of the Dragoon Mountains, Cochise County, Arizona:
- One copy of the Cochise 15' quadrangle, Arizona, with geologic annotations.
 - One copy of the Dragoon 15' quadrangle, Arizona, with geologic annotations.
 - One copy of the Pearce 15' quadrangle, Arizona, with geologic annotations.
 - One copy of the St. David 15' quadrangle, Arizona, with geologic annotations.
 - Eight partial reproductions of the Pearce 15' quadrangle, Arizona, with geologic annotations.
 - Two partial reproductions of the Cochise 15' quadrangle, Arizona, with geologic annotations.
 - Three partial reproductions of the St. David 15' quadrangle, Arizona, with geologic annotations.
 - Four composite maps composed of partial copies of the Pearce and St. David 15' quadrangles, Arizona, with geologic annotations.

- One composite map composed of partial copies of the Haberstock Hill and Knob Hill 7.5' quadrangles, Arizona, with geologic annotations.

MA-02913 Map folder with 14 maps of the Dos Cabezas Mountains, Cochise County, Arizona:

- One paper copy of the Simmons Peak 7.5' quadrangle, Arizona, with geologic annotations.
- Five partial reproductions of the Dos Cabezas 7.5' quadrangle, Arizona, with geologic annotations.
- Two partial reproductions of the Bowie Mountain North 7.5' quadrangle, Arizona, with geologic annotations.
- One partial reproduction of the Luzena 7.5' quadrangle, Arizona, with geologic annotations.
- Three partial reproductions of the Simmons Peak 7.5' quadrangle, Arizona, with geologic annotations.
- Two composite maps composed of partial copies of the Dos Cabezas and Bowie Mountain North 7.5' quadrangles, Arizona, with geologic annotations.

MA-02914 Map folder with nine maps of the Peloncillo Mountains, Hidalgo County, New Mexico and Cochise County, Arizona:

- Two copies of a geologic map of the central Peloncillo Mountains (from USGS Open-file report 74-11), with extensive geologic annotations.
- Two paper copies of the Cotton City 7.5' quadrangle, New Mexico, with geologic annotations.
- One copy of the Steins 7.5' quadrangle, New Mexico, with geologic annotations.
- One composite map composed of partial copies of the Cotton City and Steins 7.5' quadrangles, New Mexico, with geologic annotations.
- One copy of the Vanar 15' quadrangle, Arizona and New Mexico, with geologic annotations.
- Partial reproductions of the Cotton City 7.5' and Pratt 15' quadrangles, New Mexico, with geologic annotations. Attached to the maps is a memorandum from Ed Deal of Eastern Kentucky University that discusses geologic mapping in the Peloncillo Mountains.

MA-02915 Map folder with five maps of the Victorio Mountains and vicinity, Grants and Luna Counties, New Mexico:

- Two paper copies of the Gage 7.5' quadrangle, New Mexico, with geologic annotations.
- One copy of the Separ NE 7.5' quadrangle, New Mexico, with geologic annotations.
- One composite map composed of partial copies of the Gage and Gage NW 7.5' quadrangles, New Mexico, with geologic annotations.
- One geologic cross section diagram of the Victorio Mountains by Thorman and Drewes.

- MA-02916 Map folder with 23 maps of the Chiricahua Mountains and vicinity, Cochise County, Arizona:
- One paper copy of the Fife Peak 7.5' quadrangle, Arizona, with geologic annotations.
 - One copy of the Cochise Head 15' quadrangle, Arizona, with geologic annotations.
 - Three copies of the Portal 15' quadrangle, Arizona and New Mexico, with geologic annotations.
 - One copy of the Chiricahua Peak 15' quadrangle, Arizona, with geologic annotations.
 - Two partial reproductions of the Vanar 15' quadrangle, Arizona, with geologic annotations.
 - One partial reproduction of the Cochise Head 15' quadrangle, Arizona, with geologic annotations.
 - One partial reproduction of the Rustler Park 7.5' quadrangle, Arizona, with geologic annotations.
 - Four partial reproductions of the Cochise Head 7.5' quadrangle, Arizona, with geologic annotations.
 - Three partial reproductions of the Bowie Mountain South 7.5' quadrangle, Arizona, with geologic annotations.
 - One partial reproduction of the Bowie Mountain North 7.5' quadrangle, Arizona, with geologic annotations.
 - Two partial reproductions of the Little Wood Canyon 7.5' quadrangle, Arizona, with geologic annotations.
 - One composite map composed of partial copies of the Bowie Mountain North and Bowie Mountain South 7.5' quadrangles, Arizona, with geologic annotations.
 - Two composite maps composed of partial copies of the Chiricahua Peak and Portal 15' quadrangles, Arizona, with geologic annotations.
- MA-02917 Map folder with four maps of the Sierrita Mountains and vicinity, Pima County, Arizona:
- Two complete and one partial copy of the Palo Alto Ranch 15' quadrangle, Arizona, with geologic annotations.
 - One copy of a geologic map of the western Sierrita Mountains, with extensive geologic annotations.
- MA-02918 Map folder with seven maps related to Drewes' field investigations for the tectonic map of southeast Arizona (USGS Miscellaneous geologic investigations map I-1109):
- One copy of the Pearce 15' quadrangle, Arizona, with geologic annotations.
 - One copy of the College Peaks 15' quadrangle, Arizona, with geologic annotations.
 - Two partial reproductions of the Pedregosa Mountains 15' quadrangle, Arizona, with geologic annotations.

- One partial reproduction of the Portal 15' quadrangle, Arizona, with geologic annotations.
- One partial reproduction of the Swisshelm Mountain 15' quadrangle, Arizona, with geologic annotations.
- One composite map composed of partial copies of the Pedregosa Mountains and Swisshelm Mountain 15' quadrangles, Arizona, with geologic annotations and cross section diagrams.

MA-02919 Map folder with 33 items related to field investigations of regional studies in southeastern Arizona:

- Two partial reproductions of the Nogales 1x2 degree quadrangle, Arizona, with geologic annotations for the Sonoita area.
- Copies of the Benson, Bisbee, Dos Cabezas, Elgin, Empire Mountains, Fort Huachuca, Gleeson, Lochiel, Tombstone, Tubac, Tucson, Twin Buttes, and Winchester Mountains 15' quadrangles, Arizona, with geologic annotations.
- Copies of the Apache, Guadalupe Canyon, and Vanar 15' quadrangles, Arizona and New Mexico, with geologic annotations.
- Three partial reproductions of the Elgin 15' quadrangle, Arizona, with geologic annotations.
- Two partial reproductions of the Tombstone 15' quadrangle, Arizona, with geologic annotations.
- One partial reproduction of the Winchester Mountains 15' quadrangle, Arizona, with geologic annotations.
- One partial reproduction of the Tubac 15' quadrangle, Arizona, with geologic annotations.
- Three partial reproductions of the Pyeatt Ranch 7.5' quadrangle, Arizona, with geologic annotations.
- One composite map composed of partial copies of the Pyeatt Ranch and Mustang Mountains 7.5' quadrangles, Arizona, with geologic annotations.
- One geologic cross section diagram showing structure in the northwestern Huachuca Mountains, Cochise and Santa Cruz Counties.
- One geologic cross section diagram and map unit description showing structure in the Tombstone area, Cochise County.
- One geologic cross section diagram and map unit description showing structure in the Dragoon Mountains area, Cochise County.
- One geologic map unit description sheet for the Huachuca Mountains, Cochise and Santa Cruz Counties.

MA-02920 Map folder with 29 maps of the Santa Rita Mountains and vicinity, Pima and Santa Cruz Counties, Arizona:

- Ten partial reproductions of the Mount Wrightson 15' quadrangle, Arizona, with geologic annotations.
- Eleven partial reproductions of the Sahuarita 15' quadrangle, Arizona, with geologic annotations.
- Sheet with three partial reproductions of the Sahuarita 15' quadrangle, Arizona, with geologic annotations.

- One composite map composed of partial copies of the Elgin, Mount Wrightson, and Nogales 15' quadrangles, Arizona, with geologic annotations.
- Two composite maps composed of partial copies of the Mount Wrightson and Nogales 15' quadrangles, Arizona, with geologic annotations.
- One composite map composed of partial copies of the Mount Wrightson, Tubac, and Sahuarita 15' quadrangles, Arizona, with geologic annotations.
- One composite map composed of partial copies of the Mount Wrightson and Tubac 15' quadrangles, Arizona, with geologic annotations.
- One composite maps composed of partial copies of the Mount Wrightson, Nogales, and Tubac 15' quadrangles, Arizona, with geologic annotations.
- One composite map composed of partial copies of the Sahuarita and Empire Mountains 15' quadrangles, Arizona, with geologic annotations.

MA-02921 Map folder with 12 maps of the Harcuvar Mountains, La Paz County, Arizona:

- One copy and one partial copy of the Smith Peak 7.5' quadrangle, Arizona, with geologic annotations.
- One copy and one partial copy of the E.C.P. Peak 7.5' quadrangle, Arizona, with geologic annotations.
- One copy of the Webber Canyon 7.5' quadrangle, Arizona, with geologic annotations. Note: The map bears the quadrangle's preliminary names "Gladden NW" and "Harquahala Mtns NW".
- Two copies of the Gladden 15' quadrangle, Arizona, with annotations.
- One partial reproduction (with drafting film overlay) of the Cunningham Pass 7.5' quadrangle, Arizona, with annotations.
- One partial reproduction of the E.C.P. Peak 7.5' quadrangle, Arizona, with geologic annotations.
- One composite map composed of partial copies (with drafting film overlay) of the ECP Peak and Smith Peak 7.5' quadrangles, Arizona, with geologic annotations.
- One composite map composed of partial copies (with drafting film overlay) of the Alamo Dam SE, Cunningham Pass, ECP Peak, and Webber Canyon 7.5' quadrangles, Arizona, with geologic annotations.
- One composite map composed of partial copies (with drafting film overlay) of the ECP Peak and Webber Canyon 7.5' quadrangles, Arizona, with geologic annotations.

MA-02922 Map folder with 10 maps of the Tucson Mountains, Pima County, Arizona:

- Two copies of the Avra 7.5' quadrangle, Arizona, with geologic annotations.
- One copy of the Cat Mountain 7.5' quadrangle, Arizona, with geologic annotations.
- One copy of the San Xavier Mission 7.5' quadrangle, Arizona, with geologic annotations.
- One copy of the Jaynes 7.5' quadrangle, Arizona, with geologic annotations.
- One composite map composed of partial copies of the Avra and Brown Mountain 7.5' quadrangles, Arizona, with geologic annotations.
- Three composite maps composed of partial copies of the Brown Mountain

and Cat Mountain 7.5' quadrangles, Arizona, with geologic annotations.

- One sheet with a geologic map and structure sections of the Tucson Mountains, Arizona, from the Bulletin of the Geological Society of America, vol. 50, 1939.

MA-02923

Map folder with 55 items related to Drewes' Gilbert Fellowship cordilleran synthesis investigations in Arizona and New Mexico:

- One copy of the Apache Junction 7.5' quadrangle, Maricopa and Pinal Counties, Arizona, with geologic annotations.
- One copy of the Goldfield 7.5' quadrangle, Maricopa and Pinal Counties, Arizona, with geologic annotations.
- One copy of the Guadalupe 7.5' quadrangle, Maricopa County, Arizona, with geologic annotations.
- One copy of the Lone Butte 7.5' quadrangle, Maricopa County, Arizona, with geologic annotations.
- One copy of the Cotton Center 7.5' quadrangle, Maricopa County, Arizona, with geologic annotations.
- One copy of the Utting 15' quadrangle, La Paz County, Arizona, with geologic annotations.
- Four composite maps composed of partial copies of the Salome and Utting 15' quadrangles, La Paz County, Arizona, with geologic annotations.
- Two copies of a topographic map of the southern Plomosa Mountains, La Paz County, Arizona, with geologic annotations.
- One partial reproduction of the Hope 15' quadrangle, La Paz County, Arizona, with geologic annotations.
- Two partial reproductions of the Hachita Peak 7.5' quadrangle, Hidalgo County, New Mexico, with geologic annotations.
- One partial reproduction of the Playas Peak 7.5' quadrangle, Hidalgo County, New Mexico, with geologic annotations.
- Two partial reproductions of the West Lime Hills 7.5' quadrangle, Luna County, New Mexico, with geologic annotations.
- Three partial reproductions of the Mount Riley 7.5' quadrangle, Dona Ana County, New Mexico, with geologic annotations.
- Two composite maps composed of partial copies of the Mount Riley SE and Potrillo 7.5' quadrangles, Dona Ana County, New Mexico, with geologic annotations.
- Twenty-seven portions of topographic maps covering the Sierra Juarez, Chihuahua, Mexico, many with geologic annotations.
- Four black and white aerial photos (one with drafting film overlay with geologic annotations) of the Sierra Juarez, Chihuahua, Mexico.
- One folder with miscellaneous geologic notes and stratigraphic section diagrams and explanations for the Sierra Juarez, Chihuahua, Mexico.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-613. 1970.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-614. 1971.

Published as: U.S. Geological Survey. Professional paper 658-C. 1971.

Published as: U.S. Geological Survey. Professional paper 746. 1972.

Published as: U.S. Geological Survey. Professional paper 748. 1972.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-538. 1973.

Published as: U.S. Geological Survey. Bulletin 1385-A. 1973.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-832. 1974.

Published as: U.S. Geological Survey. Professional paper 915. 1976.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-997. 1977.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1151. 1978.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1088. 1979.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1175. 1980.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1109. 1980.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1220. 1980.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1221. 1980.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1231. 1981.

Published as: U.S. Geological Survey. Bulletin 1500. 1981.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1363. 1981.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1492. 1981.

Published as: U.S. Geological Survey. Professional paper 1144. 1981.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1312. 1982.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1521-A. 1983.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1521-B. 1983.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1521-D. 1984.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1688. 1984.

Published as: U.S. Geological Survey. Miscellaneous field studies map MF-1721. 1984.

Published as: U.S. Geological Survey. Miscellaneous investigations map I-1310-C. 1985.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1570. 1985.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1686. 1986.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1569. 1986.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1662. 1987.

Published as: U.S. Geological Survey. Bulletin 1735-C. 1988.

Published as: U.S. Geological Survey. Bulletin 1676. 1988.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1827. 1988.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-1951. 1990.

Published as: U.S. Geological Survey. Bulletin 1701-F. 1990.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-2144. 1991.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-2177. 1991.

Published as: U.S. Geological Survey. Professional paper-1512. 1991.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-2287. 1993.

Published as: U.S. Geological Survey. Miscellaneous geologic investigations map I-2450. 1995.

GEOLOGY OF THE POTWAR PLATEAU, PUNJAB, PAKISTAN. 1989-1991.

- NO-11181 Expandable envelope with:
- Annotated unpublished manuscript entitled "Geology of the Potwar Plateau Area, Punjab, Pakistan". 1991.
 - Annotated explanation of map units for a geologic map entitled "Geologic and Structure Map of Potwar Regional Framework Area, Pakistan". No date.
- NO-11182 Harald Drewes. Field notebook with general log and geology, expense, and

contact notes for Punjab Pilot Study. Areas visited include Harachi, Lahore, Ahktar, Islamabad, Khewra, Mangla, Quetta, Mianwali, Kalabagh, Pindi Gheb, Dakhni, Phagwari, Harappa, Nikku. March-November 1988, March-April, 1990.

NO-11183 Harald Drewes. Field notebook, second Pakistan tour. Travel records and geologic notes and sketches related to field investigations in the vicinity of Lahore, Islamabad, Haripur, Peshawar, Dakhain, Akhram, Jab, Gangar Range, Nikku, Dirgi, Nowshera, Mingora, and Quetta. Also included is a sketch map of the geology between Peshawar and Lahore, and notes on a trip to Colorado, Idaho, Utah, and Wyoming with Bangladeshi geologists and a Colorado trip with Saudi geology students. 1990.

MA-02924 Map folder with four items:

- Three versions of a draft geologic map of the Potwar Plateau region, Punjab, Pakistan. Scale 1:250,000.
- One copy of a map showing structural features and tectonic stages in Pakistan, by the Geologic Survey of Pakistan. Scale 1:2,000,000. 1982.

Published as: U.S. Geological Survey. Bulletin 2126. 1995.