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FIELD RECORDS COLLECTION
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**LOWELL SINCLAIR HILPERT
(1910 - 1992)**

NOTES, CORRESPONDENCE, PAPERS

(7.2 linear ft. and 20 map folders)

Lowell Hilpert was born in Centralia, Washington, in 1910. He received a B.S. degree in 1937 from the University of Washington and pursued graduate studies at Stanford University and the University of California, Berkeley. Hilpert joined the staff of the USGS in 1941 and remained with the agency until his retirement in 1975, serving at various times in the Section of Military Geology, the Branch of Mineral Deposits, the Office of Minerals Exploration, and as the Geologic Division's Regional Geologist for Salt Lake City. A noted authority on economic mineral deposits, Hilpert's projects included major studies of quicksilver in California, precious and base metals in Utah, and uranium deposits on the Colorado Plateau. He was a Fellow of the Geological Society of America and the American Association for the Advancement of Science, a member of the Society of Economic Geologists, and President of the Utah Geological Society.

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 1997/June 2009

Location of Field Notebooks: CS 12-1 through 3

**ANTIMONY, FLUORSPAR, AND MERCURY RESOURCES OF JAPAN.
1946-1947.**

<u>Item Number</u>	<u>Description</u>
NO-08565	<p>Two document boxes with 29 folders:</p> <ul style="list-style-type: none">- Folder 1. Corrected author's copy of a report entitled "Antimony Resources of Japan". General Headquarters, Supreme Commander for the Allied Powers, Tokyo. Natural Resources Section, Report No. 92, 1947.- Folder 2. Production of Antimony Ore and Metal. Single sheet with data for 1880-1903; chart and table with Salient Statistics on Antimony in Japan, 1925-1945.- Folder 3. Kano antimony mine. Typed copy (translation) of article, "On the Antimony Mine of Kano, Suo Province" by Toshi Suzuke, from Bulletin of the Geological Survey of Japan, v. 17, no. 3 (1904), p. 277-289.- Folder 4. Ichinokawa antimony mine. Typed copy of article, "History of the Ichinokawa Mine" from the Journal of the Mining Institute of Japan, v 11, no. 123 (1895), p. 161-168; typed copy of translation of "History of the Ichinokawa Antimony Mine (pages 46-50)"; handwritten and typed copies of translations - "Report on the Refining of the Ichinokawa Mine, Chapter 2 - Ores and raw materials" by Jyusuke Nakamura (Dec. 1894), and "Report on the Ichinokawa Mine. Saijo Refinery" by Gaichi Yamada. Typed translations of three publications: "Report on the Ichinokawa Antimony Mine in Inyo Province" by Shiro Yamaguchi, "Ichinokawa Antimony Mine in Iyo Province" by Osamu Aihara (1895), and "Ichinokawa Antimony Mine and its Stibnite" by Chozo Iwasaki (1898).- Folder 5. Tagu gold mine. Copy of Journal of the Geological Society of Japan, v. 43, no. 509 (Feb. 20, 1936) plus typed carbon copy of translation of article on p. 63-72, "The Geology and Ore Deposits of the Tagu Gold Mine, Aiti Prefecture" by Koroku Tsuboya.- Folder 6. Antimony manuscript. Typed carbon copy of draft text, "Antimony Resources of Japan," with revisions by Hilpert.- Folder 7. Copy of a report entitled "Fluorspar Resources of Japan", General Headquarters, Supreme Commander for the Allied Powers, Tokyo. Natural Resources Section, Report No. 75. 1947.- Folder 8. Carbon copy, typed draft of report, with revisions.- Folder 9. Fluorspar data, including typed translations of articles: "Fluorite at Isigure Mura, Inabe Gun, Mie Ken" by Kentaro Hozyo (1921); "Fluorite in Japan" by Yeturo Tukusi (1927); "An Outline of Fluorspar Mining" by Ryuichi Sonobe (1941). Also included are several pages of notes from conversations with Japanese mining officials (1946).- Folder 10. Corrected author's copy of a report entitled "Mercury Resources of

- Japan." General Headquarters, Supreme Commander for the Allied Powers, Tokyo. Natural Resources Section, Report No. 91. 1947.
- Folder 11. "Japanese Mercury Deposits" by Lowell S. Hilpert. Typed field notes "rearranged from an original badly tattered and partly illegible field notebook" (Hilpert. pers. comm.). Notes from 1946 on geology, ore deposits, and operations at various mines. Hilpert included photocopies of various sketches, which are inserted into the text as appropriate.
 - Folder 12. One sheet of notes on mercury mining.
 - Folder 13. Mercury. Carbon copy of typed draft of report, with revisions.
 - Folder 14. Structure and mineralization. Several pages of notes on Fassa Magna zone; carbon copy of notes, "Meeting with Japanese geologists, 27 Aug. 1946. Notes by Edward Sampson..."
 - Folder 15. Mercurial poisoning. Copy of U.S. Bureau of Mines Information Circular 7206 (April 1942), plus photocopy of same, plus letter of transmittal from Merle Randall (21 June 1946). The circular is titled, "New Process for Controlling Mercury Vapor."
 - Folder 16. Itomuka mine. Two pages of notes by Hilpert (1946); additional notes on the number of persons employed and type of work in 1944; data on pay from 1939-1945.
 - Folder 17. Kamio mine. Three sheets of notes by Hilpert, 1946.
 - Folder 18. Nishicha mine. Brief history of Nishicha mine (in Japanese, with English translation), production of crude ore, and sales figures - in Japanese with some English added.
 - Folder 19. Meiji mine. Mine report, written in Japanese, with some English added; translation of part of report on Meiji mine; handwritten Report of Meiji Kozan (in English) by Tanaka Kaisha; 2 sheets with additional notes.
 - Folder 20. Oketo mine. Report of answers to questionnaire plus other information about the mine and its operation.
 - Folder 21. Teshio mine. Typed copy, translation of mining company report; typed copies (translations) of two articles on quicksilver from the Journal of the Hokkaido Mining Association (1936).
 - Folder 22. Tokachi mine. Sketch of retort design.
 - Folder 23. Tono mercury deposit. Copy of Report No. 61, July 1946, "Ore Deposit Mercury Mine of Tonomine in south Yamato, Nara Prefecture," by Prof. Dr. G. Takubo, of the Japan Science Promoting Association.
 - Folder 24. Yamato mine. Report entitled "Geology and ore deposits of the Yamato Mine" by Akira Takabatake and Kimihasa Hashimoto, 1943.
 - Folder 25. Yasoshi mine. Handwritten report on mine.
 - Folder 26. Yuki mine. Four sheets of notes by Hilpert.
 - Folder 27. Mine cards. Three groups of cards (antimony, fluorspar, mercury), with one card for each mine, mill, or smelter, with room for mine/facility name, company, location, head office, maps available, remarks; not all data is given for each mine, etc.

- Folder 28. Danburite, chromite, etc. Written and typed versions of brief notes on Danburite from T. Nichiwaki, April 5, 1947.
- Folder 29. Unpublished manuscript and correspondence (Edward Sampson Symposium Volume on Japanese Mineral Commodities). Drafts of reports on antimony, fluorspar, and quicksilver, by Hilpert, with related correspondence.

MA-01822 Map folder with seven items:

- map of Tsugu Mine workings and proposed explorations.
- map of Tsuboya Mine with plan and cross-section views.
- map of Kano mine with plan and cross-section views.
- map of Ichinokawa Antimony Mine showing geology and principal and projected workings.
- chart showing production data for the Ichinokawa Antimony Mine.
- flowsheet diagram showing ore processing at the Nakase Mill.
- index map showing antimony mines in Japan, 1925-1945.

MA-01823 Map folder with 15 items:

- seven sheets of ore reserve estimates for the Itomuka Mine.
- plan map showing estimation of ore reserves on the Itomuka Mine under the Yamoto level.
- two maps showing plan and cross section views of the vein system along the Yamoto level, Itomuka Mine.
- two geologic maps of the Itomuka Mine area.
- map of the Shitani Banko level of the Itomuka Mine.
- map of the Sitaichi Banko level of the Itomuka Mine.
- map showing plan and cross section views of the Itomuka Mine.

MA-01824 Map folder with two items:

- map showing plan and cross section views of the Kamio Mine.
- map showing plan and cross section views of the Kamio Mine. Also included are tables of ore body data.

MA-01825 Map folder with geologic map of the Nishicha Mine.

MA-01826 Map folder with three items:

- map showing topography and geology of the Meiji Mine area.
- maps showing drill hole locations at the Meiji quicksilver deposit.
- stratigraphic section diagram showing test pits at the Meiji quicksilver deposit.

MA-01827 Map folder with four items:

- geologic map of the Oketo Mine area.
- map with plan and cross section views of the Oketo Mine workings.

- geologic map of the Oketo Mining District.
 - map showing underground workings at the Oketo Mine.
- MA-01828 Map folder with two items:
- map showing geology and structure of Japan.
 - diagram entitled "Correlation chart of geologic formations, igneous activities, and mineralizations in Japan". 1947.
- MA-01829 Map folder with five items:
- index map of Saeki Mine area.
 - map showing the No. 1 Deposit at the Saeki Mine, with specimen collection locations noted.
 - map showing the No. 3 Deposit at the Saeki Mine.
 - map showing the No. 5 Deposit at the Saeki Mine, with specimen collection locations noted.
 - map showing the No. 13 Deposit at the Saeki Mine, with specimen collection locations noted.
- MA-01830 Map folder with five items:
- three sheets of production data for the Teshio Suigin Mine.
 - map showing mine workings at the Teshio Suigin Mine.
 - topographic map showing the Teshio Suigin Mine and vicinity.
 - map showing topography, geology, ore bodies, and mine workings at the Teshio Suigin Mine.
 - diagram showing details of the smelter plant at the Teshio Suigin Mine.
- MA-01831 Map folder with three items:
- map showing principal workings of the Yamato Mine.
 - geologic map of the 7th level of the Yamato Mine, with cross section along Tutani shaft.
 - map showing plan and cross section view of the Yamato mine, with table of ore estimation.
- MA-01832 Map folder with five items:
- flow sheet showing ore milling process at the Yasoshi Mill.
 - map showing sample locations at the Yasoshi Mine.
 - map of underground workings at the Yasoshi Mine.
 - map showing geology of the Yasoshi Mine area.
 - map showing ore deposits at the Yasoshi Mine..
- MA-01833 Map folder with two items:
- geologic cross section diagram of the Yuki Mine area.
 - geologic map of the Yuki Mine area.

**THE SHOWA SHIN-SAN DOME OF USU VOLCANO, HOKKAIDO,
JAPAN. 1946-1947.**

- NO-08564 Envelope with information and photographs related to the 1943-1944 eruption of the Showa Shin-san dome. The material was apparently collected from Professor Ishikawa of Hokkaido Imperial University while Hilpert was in Japan in 1946-1947 studying antimony, fluorspar and mercury resources. Two photos by Prof. Ishikawa have information on the back in Japanese. Most of the photos are published and are also available from the USGS Photo Collection under L.S. Hilpert's name.

**URANIUM RESOURCES OF NORTHWESTERN NEW MEXICO.
1954-1958.**

- NO-11017 Expandable envelope with one folder of drill hole logs, stratigraphic sections, and maps related to uranium exploration activities by Chapman and Wood Company in McKinley County, New Mexico. 1956.
- NO-11018 Expandable envelope with one folder of geologic drill hole logs related to uranium exploration activities by The American Metal Company in the Ambrosia Lake District, McKinley County, New Mexico. 1956.
- NO-11019 Expandable envelope with one folder of geologic and radiometric drill hole logs related to uranium exploration activities by The American Metal Company in the Ambrosia Lake District, McKinley County, New Mexico. 1956.
- NO-11020 Expandable envelope with two folders of geologic and radiometric drill hole logs and assay data related to uranium exploration activities by The American Metal Company in the Ambrosia Lake District, McKinley County, New Mexico. 1956.
- NO-11021 Expandable envelope with six folders of drill hole logs, maps, and correspondence related to uranium exploration in Cibola, McKinley, and Valencia Counties, New Mexico. 1954-1956.
- NO-11022 Expandable envelope with eight folders of drill hole logs, maps, and correspondence related to uranium and selenium exploration in Cibola, McKinley, Sandoval, and Valencia Counties, New Mexico. 1955-1957. Also included is a report entitled "Selenium Ore Reserve Estimate (Preliminary), We Hope Mining Claims, Sandoval County, New Mexico", by Grant W. Wilson for Dial Exploration Company, Inc. 1960.

- NO-11023 Expandable envelope with nine folders of drill hole logs, maps, and correspondence related to uranium exploration in T. 14 N., Rs. 10 and 11 W., McKinley and Valencia Counties, New Mexico.
- NO-11024 Expandable envelope with nine folders of drill hole logs, maps, and correspondence related to uranium exploration in Tps. 13 and 14 N., Rs. 9 and 10 W., McKinley and Valencia Counties, New Mexico.
- NO-11025 Expandable envelope with nine folders of drill hole logs, maps, and correspondence related to uranium exploration in Tps. 13, 14, and 19 N., Rs. 1 and 9 W., McKinley, Sandoval, and Valencia Counties, New Mexico.
- NO-11026 Expandable envelope with nine folders of drill hole logs, maps, and correspondence related to uranium exploration in Tps. 13 and 14 N., Rs. 8, 9, and 10 W., McKinley and Valencia Counties, New Mexico.
- NO-11027 Storage box with approximately 900 4" x 6" index cards with drill hole data related to uranium exploration in McKinley County, New Mexico. Circa 1956.
- NO-11028 Expandable envelope with 4 folders of drill hole logs related to uranium exploration in the Ambrosia Lake District, New Mexico:
- Folder 1. Sec. 10 and 17, T. 11 N., R. 9 W.; Sec. 23 and 26, T. 12 N., R. 9 W.
 - Folder 2. Sec. 8, T. 14 N., R. 9 W.
 - Folder 3. Sec. 22, T. 14 N., R. 9 W.
 - Folder 4. Sec. 23, T. 14 N., R. 9 W.
- NO-11029 Expandable envelope with one folder of drill hole logs for Sec. 6 and 16, T. 14 N., R. 9 W., Ambrosia Lake District, New Mexico.
- NO-11030 Expandable envelope with one folder of drill hole logs for Sec. 6 and 16, T. 14 N., R. 9 W., Ambrosia Lake District, New Mexico.
- NO-11031 Expandable envelope with one folder of drill hole logs for Sec. 1, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11032 Expandable envelope with one folder of drill hole logs for Sec. 2, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11033 Expandable envelope with one folder of drill hole logs for Sec. 2, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11034 Expandable envelope with one folder of drill hole logs for Sec. 3, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.

- NO-11035 Expandable envelope with one folder of drill hole logs for Sec. 15, 23, and 25, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11036 Expandable envelope with one folder of drill hole logs for Sec. 16, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11037 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11038 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11039 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11040 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11041 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11042 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11043 Expandable envelope with one folder of drill hole logs for Sec. 24, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11044 Expandable envelope with 4 folders of drill hole logs related to uranium exploration in the Ambrosia Lake District, New Mexico:
- Folder 1. Sec. 3, T. 14 N., R. 11 W.
 - Folder 2. Sec. 4, T. 14 N., R. 11 W.
 - Folder 3. Sec. 10, T. 14 N., R. 11 W.
- NO-11045 Expandable envelope with one folder of drill hole logs for Sec. 27, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11046 Expandable envelope with one folder of drill hole logs for Sec. 26, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11047 Expandable envelope with one folder of drill hole logs for Sec. 26, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11048 Expandable envelope with one folder of drill hole logs for Sec. 26, T. 14 N., R. 10

W., Ambrosia Lake District, New Mexico.

- NO-11049 Expandable envelope with one folder of drill hole logs for Sec. 27, T. 15 N., R. 11 W., Ambrosia Lake District, New Mexico.
- NO-11050 Expandable envelope with one folder of drill hole logs for Sec. 27, T. 15 N., R. 11 W., Ambrosia Lake District, New Mexico.
- NO-11051 Expandable envelope with 4 folders of drill hole logs related to uranium exploration in the Ambrosia Lake District, New Mexico:
- Folder 1. Sec. 33, T. 15 N., R. 11 W.
 - Folder 2. Sec. 28 and 33, T. 15 N., R. 11 W.
 - Folder 3. Sec. 34, T. 15 N., R. 11 W.
- NO-11052 Expandable envelope with 6 folders of material related to uranium exploration in the Ambrosia Lake District, New Mexico:
- Folder 1. Drill hole logs for Sec. 13, T. 13 N., R. 9 W.
 - Folder 2. Drill hole logs for Sec. 22, T. 13 N., R. 9 W.
 - Folder 3. Drill hole logs for Sec. 24, T. 13 N., R. 9 W.
 - Folder 4 Copy of a report entitled "Geological Report and Drilling Request for IDM Contract 940", related to uranium exploration in T. 13 N., R. 9 W., McKinley County, New Mexico. No date.
 - Folder 5. Drill hole logs for Sec. 8, T. 13 N., R. 9 W.
 - Folder 6. Drill hole logs for Sec. 14, T. 13 N., R. 9 W.
- NO-11053 Document box with 6 folders of material related to uranium exploration in the Ambrosia Lake District and other areas in northwestern New Mexico:
- Folder 1. Drill hole logs for Sec. 12, T. 14 N., R. 10 W.
 - Folder 2. Drill hole logs for Sec. 12, T. 15 N., R. 11 W.
 - Folder 3. Drill hole map for the Acoma Prospect, Valencia County, New Mexico, by Frost Geophysical Company.
 - Folder 4. Drill hole logs for Sec. 6, T. 13 N., R. 9 W.
 - Folder 5. Drill hole logs for Sec. 14, T. 13 N., R. 9 W.
 - Folder 6. Eight geologic maps of underground mine workings in Sec. 33, T. 12 N., R. 9W.
 - Folder 7. Drill hole logs for Sec. 6, T. 14 N., R. 9 W.
 - Folder 8. Drill hole map and stratigraphic section diagrams for Sec. 9, T. 13 N., R. 9 W.
 - Folder 9. Miscellaneous drill hole logs for exploration by Lea Exploration Company in the Grants, New Mexico, area. 1956.
 - Folder 10. Miscellaneous notes and data related to uranium exploration by Holly Uranium Company on the Zuni Indian Reservation, New Mexico. 1955.
 - Folder 11. Drill hole logs for Sec. 14, T. 14 N., R. 10 W.
 - Folder 12. Drill hole logs for Sec. 10 and 22, T. 14 N., R. 10 W.

- NO-11054 Expandable envelope with one folder of drill hole logs for Sec. 23, T. 13 N., R. 9 W., Ambrosia Lake District, New Mexico.
- NO-11055 Expandable envelope with one folder of drill hole logs for Sec. 23, T. 13 N., R. 9 W., Ambrosia Lake District, New Mexico.
- NO-11056 Expandable envelope with one folder of drill hole logs for Sec. 36, T. 14 N., R. 10 W., Ambrosia Lake District, New Mexico.
- NO-11057 Field notebook with notes and geologic logs related to uranium exploration by Holly Uranium (Lea Exploration) Company in Sec. 14, T. 14 N., R. 10 W., McKinley County, New Mexico.
- NO-11058 Field notebook with notes and geologic logs related to uranium exploration by Holly Uranium (Lea Exploration) Company in Sec. 18, 19, and 20, T. 13 N., R. 9 W., McKinley County, New Mexico.
- NO-11059 Field notebook with notes and geologic logs related to uranium exploration on the Mesa Top and Beacon Hill claim groups by Holly Uranium (Lea Exploration) Company, McKinley County, New Mexico.
- NO-11060 Field notebook with notes and geologic logs related to uranium exploration by Four Corners Exploration Company in Sec. 13, T. 13 N., R. 9 W., McKinley County, New Mexico.
- NO-11061 Field notebook with notes and geologic logs related to uranium exploration by Holly Uranium (Lea Exploration) Company in Sec. 14, T. 14 N., R. 10 W., McKinley County, New Mexico.
- NO-11062 Field notebook with notes and geologic logs related to uranium exploration by Kerr-McGee Corporation in T. 14 N., R. 10 W., McKinley County, New Mexico.
- NO-11063 Field notebook with notes and geologic logs related to uranium exploration by Kerr-McGee in T. 14 N., Rs. 9 and 10 W., McKinley County, New Mexico.
- NO-11064 Field notebook with notes and geologic logs related to uranium exploration by Phillips Petroleum in T. 14 N., R. 9 W., McKinley County, New Mexico.
- NO-11065 Field notebook with notes and geologic logs related to uranium exploration by Holly Uranium (Lea Exploration) Company in Sec. 18, 19, and 20, T. 13 N., R. 9 W., McKinley County, New Mexico.
- NO-11066 Field notebook with notes and geologic logs related to uranium exploration by

ACM Company at the Jackpile Mesa claim group, McKinley County, New Mexico. Also included are miscellaneous geologic notes from McKinley County.

- NO-11067 Field notebook with notes and geologic logs related to uranium exploration by ACM Company at the Jackpile Mesa claim group, McKinley County, New Mexico. Also included are miscellaneous geologic notes and stratigraphic section descriptions from McKinley County.
- NO-11068 Field notebook with notes and geologic logs related to uranium exploration by Anaconda Corporation in Sec. 9 and 15, T. 12 N., R. 9 W., McKinley County, New Mexico.
- NO-11069 Field notebook with notes and stratigraphic section descriptions related to examination of prospects in New Mexico including lode claims near Las Vegas, Black Mountain on the Navajo Reservation, the Woodrow Mine on the Laguna Indian Reservation, and miscellaneous sites in McKinley and Valencia Counties.
- NO-11070 Field notebook with notes and stratigraphic section descriptions related to uranium exploration in the Poison Canyon area, McKinley County, New Mexico.
- NO-11071 Field notebook with notes, sketches, and stratigraphic section descriptions related to studies of the Morrison Formation and related strata in north-central New Mexico by Ellsworth Swift.
- NO-11072 Document box with five notebooks of assay data related to uranium exploration by Haystack Mountain Development in McKinley County, New Mexico:
- Notebook 1. Sec. 17 and 23, T. 13 N., R. 10 W.; Sec. 13, T. 13 N., R. 11 W.; and Sec. 31, T. 13 N., R. 9 W.
 - Notebook 2. Sec. 19, T. 13 N., R. 10 W.
 - Notebook 3. Sec. 19, T. 13 N., R. 10 W.
 - Notebook 4. Sec. 25, T. 13 N., R. 10 W.
 - Notebook 5. Sec. 25, T. 13 N., R. 10 W.
- MA-02870 Map folder with 51 items:
- 50 stratigraphic correlation diagrams for T. 14 N., R. 10 W., McKinley County, New Mexico. 1958.
 - structure contour map based on the top of the Dakota Sandstone in the Ambrosia Lake area, McKinley County, New Mexico. 1956.
- MA-02871 Map folder with 79 items:
- 77 stratigraphic section diagrams for Tps. 13 and 14 N., R. 9 W., McKinley County, New Mexico.
 - explanation sheet for stratigraphic sections diagrams.
 - drill hole location map for sec 28, T. 14 N., R. 9 W. 1956.

- MA-02872 Map folder with 25 items:
- 23 geologic cross section diagrams for Tps. 13, 14, and 15 N., Rs. 8, 9, 10, and 11 W., McKinley County, New Mexico.
 - map of the Alta Mine, T. 14 N., 11 W., McKinley County, New Mexico.
 - mine, ore body, and drill hole map of the Diamond No. 2 Mine area, T. 15 N., R. 17 W., McKinley County, New Mexico.
- MA-02873 Map folder with 40 items, including geologic fence diagrams and maps showing geology, structure, drill hole location, mining claims, and sample analysis data for sections 21-32, T. 13 N., R. 9 W., McKinley County, New Mexico.
- MA-02874 Map folder with 40 items, including stratigraphic sections, block diagrams, and maps showing geology, uranium claims, sample locations, drill hole locations, and surface and underground mine workings in sections 2-20, T. 13 N., R. 9 W., McKinley County, New Mexico.
- MA-02875 Map folder with 25 drill hole location, sample analysis data, ore body, and mining claim maps for sections 8-36, T. 14 N., R. 9 W., McKinley County, New Mexico.
- MA-02876 Map folder with 30 items, including stratigraphic section and fence diagrams and maps showing geology, structure, mines, mining claims, drill hole locations, sample analysis data, and ore bodies for sections 1-25, T. 13 N., R. 10 W., McKinley County, New Mexico.
- MA-02877 Map folder with 37 items, including drill hole data tables, stratigraphic section diagrams, and maps showing mine development plans, drill hole locations, and geologic structure for T. 14 N., R. 10 W., McKinley County, New Mexico.

Published as: U.S. Geological Survey. Professional paper 603. 1969.

MISCELLANEOUS GEOLOGIC INVESTIGATIONS. CIRCA 1956.

- NO-11073 Field notebook with miscellaneous notes on coal and uranium geology made on a trip to Texas, South Dakota, and North Dakota in May, 1956.
- NO-11074 Envelope with two electric log printouts of drill hole data from the Pure Oil Company Nannie Rogers No. 5 and the Emma Walters No. 3 holes, Wayne County, Illinois. No date.