



FINDING AID

YELLOWSTONE NATIONAL PARK GEOLOGY PROGRAM RECORDS 1870-2017

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HISTORY

The observation, study, monitoring, and interpretation of Yellowstone's geologic features following the establishment of the National Park Service was historically one of the many responsibilities of both seasonal and permanent park ranger naturalists, usually administered by the Interpretation Division. Notable naturalists include C. Max Bauer (PhD in Geology, University of Colorado, 1932) and George Marler, who earned a citation for distinguished service from the US Department of Interior in 1967 for contributions in the field of hydrothermal geology. Over the years, advocacy for a permanent geologist position grew, culminating in the appointment of Roderick (Rick) A. Hutchinson as park geologist in 1976. Additional geologists were added to the program in the 1980s, including Wayne L. Hamilton.

In March of 1993, park management created the Yellowstone Center for Resources (YCR) to centralize science and resource management functions. The Geology program was placed within the Physical Resources and Climate Science branch of the YCR.

After Hutchinson's death in 1997, the position remained empty until 2002, when Henry (Hank) Heasler and Cheryl Jaworowski were appointed park geologists. Heasler and Jaworowski retired in 2016 and Jefferson Hungerford took over as park geologist in October of that year. As of November 2022, Hungerford remains in the position.

Within the YCR's Geology program, scientists focus on basic and applied research and specific monitoring activities in support of park management, resources management, and interpretation needs. Special topics include the research and resource management of thermal features, seismology, microbiology, volcanology, glaciology, and speleology, as well as geochemistry, geophysics, atmospheric science, and hydrology.

Scientists from the United States Geological Survey (USGS) have a long history of conducting research within Yellowstone National Park, often in partnership with the NPS. USGS geologists who studied in Yellowstone include Arnold Hague, Don White, and Warren Bell Hamilton. The Yellowstone Volcano Observatory (YVO), which was founded in 2001, is led by the USGS as part of its Volcano Hazards Program. It monitors and studies the volcanic and hydrothermal systems of Yellowstone and disseminates data and interpretations to the public. As a member of the YVO consortium, which also includes the University of Utah, the NPS contributes logistical, managerial, and scientific expertise to the observatory. Distinguished Professor of Geology Robert B. Smith began research in Yellowstone in 1956 and led the YVO for many years until his retirement in 2022.

Geologic research has also been conducted by academic scientists under a permitting system. Noted geologists permitted to study and collect specimens under this system included John Eliot Wolff (Harvard), Eugene Thomas Allen and Arthur Lewis Day (Carnegie Institute), Charles William Wilson, Jr. (Vanderbilt), and Erling Dorf (Princeton), who worked for several seasons as a contracted researcher for the park in addition to conducting his own studies.

Timeline:

- 1871-1878: Expeditions of USGS Geologist Ferdinand Hayden into the Yellowstone region.
- 1930s-1960s: Park naturalist George Marler conducts studies and inventories of the park's thermal features.
- 1932-1943: Clyde Max Bauer (C. Max Bauer) hired as park naturalist.
- 1943-1946: C. Max Bauer serves as the park's first chief park naturalist.
- 1946-1959: David deLancey Condon hired as chief park naturalist.
- 1951: The "exchange of function" mechanism behind the irregularity of most geysers is first described by George Marler.
- 1959: The magnitude 7.3 Hebgen Lake earthquake occurs just outside YELL's western boundary, causing 28 fatalities, multiple rockslides throughout the region, and a landslide that dammed the Madison River. Naturalists begin to study the earthquake's effects on the park's thermal features.
- 1960-1968: John Good hired as chief park naturalist.
- 1966: Researcher Dr. Thomas Brock discovers the bacterium *Thermus aquaticus* in a hot spring, resulting in the heat-resistant enzyme Taq DNA polymerase.
- 1970-73: Roderick (Rick) Hutchinson begins work as a seasonal interpretive specialist, primarily at Norris Geyser Basin and Old Faithful.
- 1973-1976: Rick Hutchinson works as a park ranger geothermal specialist.
- 1976: Rick Hutchinson hired as first permanent park geologist.
- 1983: The Borah Peak earthquake (magnitude 6.9) causes measurable changes in Old Faithful Geyser and other hydrothermal features.
- 1984: Rick Hutchinson's position title changed to Research Geologist.
- 1986: The Church Universal and Triumphant (CUT) drills a deep well on private property located just outside the YELL boundary.
- 1994: The NPS and the State of Montana establish a water-rights compact and controlled-groundwater area to protect "Known Geothermal Resources Areas" from drilling as well as protect the park's hydrothermal features from oil, gas, and groundwater development near the park.
- 1995: World Foundation for Environment and Development (WFED) begins to work with YELL on facilitating bioprospecting programs in the park.
- March 1997: Rick Hutchinson dies in an avalanche by Heart Lake while on duty.

- July 1997: “Report on Earth Sciences Seminar Concerning Yellowstone’s Needs” written by John Good (known colloquially as the “John Good report”) calls for long-term monitoring of park thermal features and advocates for a full-time geologist and full-time hydrologist.
- 1998: YELL enters into a Cooperative Research and Development Agreement (CRADA) with the biotechnology firm Diversa Corporation.
- 1998: Congress enacts the National Park Omnibus Management Act, increasing the emphasis on scientific research activities within national parks and authorizing parks to negotiate with the research community for benefits-sharing agreements.
- 1998: The Edmonds Institute (EI) and the International Center for Technology Assessment (ICTA) file a lawsuit against the DOI and NPS for violation of the Federal Technology Transfer Act of 1986.
- 1999: Legal challenge freezes implementation of the benefits-sharing agreement until an Environmental Impact Analysis (EA or EIS) is completed.
- 1999-2007: USGS scientists and private company Eastern Oceanics survey the bottom of Yellowstone Lake using high-resolution, multi-beam swath sonar imaging, seismic-reflection profiling, and a ROV. The survey mapped previously unknown features and confirmed that the northern half of the lake is inside the Yellowstone Caldera.
- 2000: Nancy Hinman serves as geothermal geologist.
- 2000-2001: Paul Doss appointed as park geologist.
- 2001: The Yellowstone Volcano Observatory (YVO) founded as a partnership of YELL, USGS, and University of Utah. Founding scientists include Dr. Robert (Bob) Smith from the University of Utah, Dr. Marianne Guffanti from the USGS Volcano Program, and YELL geologist Paul Doss.
- 2002-2016: Henry (Hank) Heasler and Cheryl Jaworowski hired as park geologists.
- 2004: Global Positioning Systems (GPS) units implemented to measure ground-motions. Results indicated that parts of the Yellowstone caldera were rising, while others started to subside.
- 2006: The YVO develops and implements a volcano and earthquake monitoring program.
- 2007: UNAVCO and the USGS begin the process of implementing a network of boreholes across the park meant to obtain data from earthquakes.
- 2010: EIS is completed and NPS adopts benefits-sharing agreement.
- 2011: Paleontology is assigned to the park geologist.
- 2013: YVO expands to include the University of Wyoming, Montana Bureau of Mines and Geology, Wyoming State Geological Survey, Idaho Geological Survey, Montana State University, and UNAVCO, Inc.
- 2016-present: Jefferson (Jeff) Hungerford appointed as park geologist.
- 2018-present: Erin White is appointed as the park’s first full-time permanent hydrologist.

SCOPE AND CONTENT

YELLOWSTONE NATIONAL PARK
GEOLOGY PROGRAM RECORDS
1870-2017, bulk 1940-2012

COLLECTION# RG 01-Geo (YELL 80964)

VOLUME 109 LF

DESCRIPTION

The Geology Program Records details the study of geology inside Yellowstone National Park (YELL) and the Greater Yellowstone Ecosystem (GYE). These records are a result of activities and programs designed to monitor and study the various geologic features and events within the GYE including its thermal features, rocks and soils, streams and rivers, fossils, and the impact of earthquakes in and around the park.

This collection is particularly strong in the observation and study of Yellowstone's geysers, hot springs, and fumaroles; the observation and study of seismicity in the area; the development of bioprospecting within the park; as well as mining and other resource development operations conducted near park borders. Topics include the role naturalists played in the study and monitoring of thermal features found within the park, the development of the park's geology program and hydrology program, the participation of amateur scientists in monitoring and studying thermal features, soil surveys, earthquake interpretation and monitoring, geology's role in planning park infrastructure, external and internal research projects, and the professionalization of the park geologist role. Materials include articles, chart rolls, clippings, correspondence, field notes, hygrothermographs, inventories, legal materials, logbooks, maps, meeting agendas and minutes, memos, monitoring plans, notes, observation data, plans, proposals, reports, surveys, cassettes, CD-ROMs, negatives, photographs, slides, and VHS tapes.

The Geothermal Resources series contains materials related to the commercial development and use of resources within the Greater Yellowstone Ecosystem, primarily by outside groups and companies. The Hydrology series is primarily concerned with the ongoing monitoring and study of water quality and stream erosion within YELL. The Paleontology series is largely comprised of materials related to park projects with paleontological focuses, particularly the Mt. Everts survey and the Trilobite Point survey. The Rocks, Soils, and Minerals series primarily contains materials related to soil surveys conducted within YELL. The Seismology and Volcanology series concerns the study and impact of earthquakes within the GYE. The Administrative Materials series gives insight into the development, management, and policies of the geology program. Major topics include park infrastructure, reference questions from park staff and the general public, and the role of geology in the development of bioprospecting and microbiology agreements. The Thermal Features series contains materials related to the study and observation of the various thermal features and geyser basins within YELL.

Researchers interested in how geoscience is relayed to the public should consult the Interpretation and Education Records (RG 06). Some papers of park naturalists and geologists detailing more personal aspects of their time in the park may be found at Brigham Young University.

ORGANIZATION Organized into seven series: Series I: Geothermal Resources Development; Series II: Hydrology; Series III: Paleontology; Series IV: Rocks, Soils, and Minerals; Series V: Seismology and Volcanology; Series VI: Administrative Materials; Series VII: Thermal Features.

Most of the series are arranged alphabetically and then chronologically based on subject matter and/or project. Series V: Seismology is arranged chronologically.

Photographs may be found in all series. Oversize maps have been separated to the Flat Files, with separation sheets marking their original location in the collection. Maps were also separated to Series 06 of the Yellowstone Maps and Drawings Collection (RG Maps).

PROVENANCE Transferred to the archives from various park divisions and staff, primarily from the Yellowstone Center for Resources.

RESTRICTIONS Yes: Series III: Paleontology includes some archeological site information restricted by the 1979 Archeological Resources Protection Act. Consult the archivist for more information.

ASSOCIATED MATERIALS

- Fisheries and Aquatic Sciences Program Records, 1973-2004, Yellowstone National Park Combined Archives
- Maps and Drawings Collection, Series 06 (RG Maps), Yellowstone National Park Combined Archives
- Research Permit Records, 1933-Present, Yellowstone National Park Combined Archives
- Yellowstone Fire Management Records, 1918-Present, Yellowstone National Park Combined Archives
- Clyde Max Bauer Collection (MSS 8893), Brigham Young University
- George D. Marler Papers (MSS 2171), Brigham Young University

SERIES DESCRIPTIONS

I. Geothermal Resources Development, 1979-2005

This series contains materials related to the commercial use of resources within Yellowstone National Park, primarily by outside groups and companies. Formats include articles, agendas, clippings, correspondence, environmental impact statements (EIS), legal materials, maps, memos, minutes, papers, petitions, reports, and transcripts.

Geothermal Resources Development includes correspondence, articles, reports, and legal materials related to the development of land primarily outside the boundaries of Yellowstone National Park and the potential impact on thermal features within YELL's boundaries. One of the major topics within this series is the Corwin Springs Known Geothermal Resources Area (KGRA), particularly the drilling of La Duke Spring. The Church Universal and Triumphant (CUT) was heavily involved in the development of the Corwin Springs area and this series includes correspondence between CUT and NPS employees regarding the potential negative impact of drilling in the area as well as environmental impact statements, reports, and legal materials. More information on research and data compiled by scientists on this topic can be found in the Hydrology series.

Another major topic in this series is the dispute over Canadian mining company Noranda, Inc.'s 1989 proposal to build a gold mine near Cooke City, northeast of Yellowstone National Park. YELL officials and conservation groups expressed concern over the impact mining operations could have on the park's waterways and ecosystem, particularly the headwaters of Soda Butte Creek. A federal buyout of the mining company was authorized in 1996. This series includes correspondence and environmental impact statements (EIS) related to the mining proposal and subsequent controversy.

Other topics in this series include microbiology and bioprospecting (particularly related to the DIVERSA Company and subsequent lawsuit). There is more information about bioprospecting and microbiology within the Administrative series of this collection. Prominent names in this series are John Varley, Ann Deutch (Research Permit Facilitator), and Robert Lindstrom (Research Coordinator).

Records are arranged first alphabetically by topic and then chronologically. Folders that span extended time periods are placed chronologically according to their start date.

II. Hydrology, 1906-2015, bulk 1980-2002

The Hydrology series contains materials related to the ongoing monitoring and study of water in the park, particularly water quality and stream erosion. Materials include articles, clippings, correspondence, data, gauge readings, logbooks and field notes, memos, monitoring plans, notes, reports, research proposals, and trip reports.

YELL's lakes, rivers, and streams are studied to monitor the overall health of the park's hydrothermal, geothermal, and biotic resources. Stream flows into the park (such as Soda Butte Creek) and water usage outside the park are also monitored to assure quality and quantity standards are maintained. Hydrologic data in the park is collected not only by park staff, but by external researchers from organizations like the USGS and the U.S. Fish and Wildlife Service.

The Church Universal and Triumphant (CUT) is a major topic in this series. Materials in this series document the research that scientists conducted to try and determine possible effects to Mammoth Hot Springs and related thermal features of the well drilled by CUT near LaDuke hot springs in 1986.

Other topics in this series include Boiling River temperatures and discharge, chloride flux monitoring and data collection, Corwin Springs logbooks, field data books from interns and volunteers, Wayne Hamilton's field books, fuel moisture projects data, results from gauging stations, a Greenness factor study, Yellowstone Lake level data, the Marysville canal, stream flow, stream erosion, Soda Butte Creek, Grasshopper and Sunlight glaciers, water turbidity, water quality, water rights, and water temperatures.

More information on Soda Butte, LaDuke, and the New World Mine can be found in the Administrative and Geothermal Resources Development series. More information on stream gauging and flow can be found in the Fisheries and Aquatic Sciences Program Records (RG 01-FISH). For current water data, researchers are encouraged to look at the Water Quality Portal maintained by the National Water Quality Monitoring Council.

Records are arranged first alphabetically by topic and then chronologically. Folders that span extended time periods are placed chronologically according to their start date.

III. *Paleontology, 1996-2011*

The Paleontology series contains materials related to the discovery and study of fossils in and around Yellowstone National Park. This series is helpful for researchers interested in park projects with paleontological focuses, projects requiring paleontological input, how park staff and external researchers planned and executed field expeditions, and how the paleontology department was run. The two major topics in this series are the Mt. Everts survey and the Trilobite Point survey, both of which aimed to identify and study paleontological specimens. Other topics include the park's fossilized trees/fossil tree forests and specific park features with paleontological interest.

Formats in this series include articles and drafts, applications for project grant funding, budgets, clippings, correspondence, data collected from park projects or shared by external researchers, field notes, inventories of fossil resources, locality forms, memos, minutes and meeting agendas, permits, plans, project proposals and statements, annual and project reports, studies, surveys, work plans, and photographs (primarily on printer paper). Prominent names in this series are Elaine Hale, Julia Fitzke, Vince Santucci, William (Bill) Fritz, Henry Heasler, and Wayne Hamilton.

Records in this series are arranged first alphabetically and then chronologically within that based on subject matter and project. Folders that span extended time periods are placed chronologically according to their start date.

Materials containing locations of fossil sites are restricted.

IV. *Rocks, Soils, and Minerals, 1920-2012, bulk 1980-2008*

The Rocks, Soils, and Minerals series includes articles and clippings, data and data sheets, drawings, inventories, minutes, meeting agendas, notes, project proposals, presentations, surveys, studies, worksheets, correspondence, memos, reports, data sheets, slides, negatives, photographs, and maps.

The major topic covered in this series is soil surveys. These surveys were meant for broad resource planning and were numerically arranged by flight line number (F.L.). Aerial photographs were acquired sequentially, along North-South flight lines that covered the entire park. The objective of the soil surveys was to provide basic soils information for use in research, resource management, and interpretation and educational purposes. Other topics include boreholes, core collection, radon monitoring, mercury soil analysis, soil-sediment dating, and speleology (caves).

Materials are arranged alphabetically by topic and then chronologically within each grouping. Folders that span extended time periods are placed chronologically according to their start date.

V. *Seismology and Volcanology, 1920-2016*

The major topic within the Seismology and Volcanology series is the impact and aftermath of the 1959 Hebgen Lake earthquake on Yellowstone National Park. Materials documenting this include emergency earthquake interpretation reports and correspondence, articles, memos, and correspondence from park employees as well as the general public. Most of the materials documenting the impact of the earthquake on thermal features are located in the Thermal Features series.

Other topics within this series include the drilling of boreholes within the park to install volcanic monitoring equipment, discussion of earthquake epicenters, landscape changes post-earthquake in various locations throughout the park, and seismicity monitoring. The Yellowstone Volcano Observatory (YVO) is mentioned often in this series.

Materials include articles, clippings, correspondence, data, felt reports, logbooks, maps, memos, papers, photographs, reports, and seismograph rolls.

Materials are arranged chronologically and then alphabetically. Folders that span extended time periods are placed according to their start date.

VI. *Administrative Materials, 1880-2015, bulk 1980-2005*

This series gives insight into the development, management, and policies of the geology program. Materials include internal correspondence, memos, reports, and contracts between park staff as well as external researchers and contractors, notes, research abstracts and articles, legal documents, and permits. Correspondence with the public-particularly correspondence that dates before the creation of the geology program-covers a range of topics from geysers to animals within the park.

A major topic in this series is the development of bioprospecting and benefits-sharing within the park and subsequent microbiology agreements and lawsuits. Bioprospecting materials in this series document the development of a benefits-sharing agreement with the Diversa corporation, and include legal materials, correspondence, reports, task agreements, and cooperative research and development agreements (CRADA) and drafts.

Other topics include park infrastructure, research projects and permitting-particularly geothermal research, general reference and research requests, the development of YELL's naturalist division and the Geology Program within the Yellowstone Center for Resources, and the role that geology has in resource sharing and park infrastructure projects.

It is arranged first alphabetically by topic, and then chronologically within each grouping. Folders that span extended time periods are placed chronologically according to their start date.

To note: correspondence in the early 1900s was often filed together regardless of topic, although examples of this can still be found up until the late 1900s and early 2000s. In cases where topics were mixed (for example: thermal features and seismology), the correspondence was kept in the Administrative Materials series.

VII. *Thermal Features, 1870-2014, bulk 1920-2009*

The Thermal Features series contains materials related to the study and observation of the various thermal features (including geysers, mudpots, fumaroles, and terraces) and geyser basins within Yellowstone National Park. Materials include articles, correspondence, data, field notes and observations, infra-red rolls, inventories, logbooks, memos, maps, notes, observations, photographs, reports, and slides.

Logbooks, observations, and reports make up a significant portion of this series. Various thermal features were assigned a logbook which were filled out by staff, volunteers, and/or the general public. Observations include eruption times, type, duration, and interval between eruptions. Over the years, the monitoring and study of thermal features has been done not only by park staff, but official park volunteers (VIPs) and hobbyists colloquially known as “geyser gazers.” These geyser gazers often collect observations and data for various thermal features over the summer, and many come back yearly to continue their observations. Rocco Paperiello, Marie Wolf, and Phil Landis are just a few of the VIPs and geyser gazers that come up often in this series.

Rick Hutchinson’s slides span from 1970-1996 and help document the work of a park geologist. Included are photographs of thermal features and various backcountry trips. Hutchinson’s wife, former park botanist Jennifer Whipple, wrote a document that provides more insight into the contents of the photographs. Some photographs may coincide with Hutchinson’s field notes.

Other topics in this series include the impact of the 1959 Hebgen Lake earthquake on the park’s thermal features, reports on hot spring activity in the geyser basins of the Firehole River by George Marler and Roderick (Rick) Hutchinson, thermal inventories and surveys, and geothermal monitoring.

The materials are arranged alphabetically by location/basin and then chronologically within each location grouping. The groupings are: Upper Basin, Lower Basin, Midway Basin, Firehole, Gibbon, Heart Lake, Lone Star, Mammoth, Mud Volcano, Norris, Shoshone, and West Thumb. Materials that touch on a range of locations and features are grouped under the title “Combined.” Researchers interested in specific thermal features would do well to check both locations.

CONTAINER LIST

Series Nbr **Series Title**
 01 Geothermal Resources Development, 1979-2005

Box 1

File Unit	Title
001.01	Bill to Amend the Geothermal Steam Act of 1970, 1993
001.02	Biodiversity Prospecting in U.S. National Parks: The Yellowstone Experience Edited Draft, 2000
001.03	Bioprospecting - Biodiversity, Ecology, and Evolution of Thermophiles, Overview and Issues Booklet, 1995
001.04	Bioprospecting - Yellowstone Thermophiles Conservation Project Booklets, circa 1995
001.05	Bioprospecting - Diversa Corporation Articles and Media Releases, 1996-1997
001.06	Bioprospecting - The Yellowstone Microbiology Program: Status and Prospects Conference Submission, June 1997
001.07	Bioprospecting - Diversa Corporate Materials and Correspondence, 1997
001.08	Bioprospecting - Diversa Media Packet, 1997
001.09	Bioprospecting - Known Commercial Uses Correspondence, 1997
001.10	Bioprospecting - Primer and Briefing Statement, circa 1997
001.11	Bioprospecting - Diversa Information Sheets, Press Releases, Correspondence, 1997-2001
001.12	Bioprospecting - Benefit-Sharing Case Study of YNP and Diversa Corporation, 1998
001.13	Bioprospecting - Case Study Drafts and Correspondence, Royal Botanic Gardens Kew, 1998
001.14	Bioprospecting - Diversa SIBR Grant, 1998
001.15	Bioprospecting - New York Botanical Gardens Permit Request Correspondence, 1998
001.16	Bioprospecting - Final Amended CRADA and Correspondence, circa 1998-2000
001.17	Bioprospecting - Environmental Impact Statement (EIS) Initial Group Organization Chart, circa 1999

Box 2

File Unit	Title
002.01	Bioprospecting - Reprint of Nature, Knowledge, and Profit: The Yellowstone Bioprospecting Controversy and the Core Purposes of America's Natural Parks by Holly Doremus and Correspondence, 1999
002.02	Bioprospecting - Notice of Intent to Prepare an Environmental Impact Statement (EIS) Concerning the Sharing of Potential Benefits Resulting from Research Activities drafts, 1999-2000
002.03	Bioprospecting - Serpentine Hot Springs, Alaska Correspondence, 1999-2000
002.04	Bioprospecting - World Foundation for Environment and Development (WFED) Patent Claims and Conservation and Use Papers and Correspondence, 2000
002.05	Bioprospecting - Benefits-Sharing EIS Correspondence, Memos, Draft Deliberative Process, 2000-2002

Series Nbr Series Title

01 Geothermal Resources Development, 1979-2005 (cont'd)

Box 2 (cont'd)

File Unit	Title
002.06	Bioprospecting - Articles, Worldwatch Venture Capitalism for a Tropical Forest Paper and Correspondence, 2000-2003
002.07	Bioprospecting - Cumulative Effects Analysis for Benefits-Sharing Alternates, 2000 (?)
002.08	Bioprospecting - State Parks Question NPS, Correspondence, 2001
002.09	Bioprospecting - Point Reyes Perfume Request Correspondence, 2001
002.10	Bioprospecting - Correspondence, Litigation Materials, Articles, and Agreements Collected by John Varley, 2003
002.11	Bioprospecting - Diversa and Edmonds Litigation Paper by Dave Watts (draft), 2003
002.12	Church Universal and Triumphant (CUT) - Environmental Impact Statement Correspondence, 1992-1993
002.13	CUT - Encroachments - Water Rights Correspondence and Legal Materials, circa 1984-1990
002.14	CUT - Encroachments - Water Rights, Reese Creek Correspondence and Memos, 1986-1988

Box 3

File Unit	Title
003.01	CUT - Encroachments - Geothermal Water Rights, Land Exchange Correspondence, 1994, 1999
003.02	Construction Effects Correspondence and Memos, 1981-1998
003.03	Corwin Springs - Known Geothermal Resources Area (KGRA) Geothermal Data, 1975
003.04	Corwin Springs - John Townsley Senate Statement, December 1981
003.05	Corwin Springs - KGRA Articles, 1983-1991
003.06	Corwin Springs - Aquifer Testing and Evaluation of a Geothermal Well at Royal Teton Ranch Report, 1986
003.07	Corwin Springs - Irving Friedman Statement, Effects of Potential Geothermal Development Draft, Correspondence, 1986, 1991
003.08	Corwin Springs - Geothermal Well Study at Royal Teton Ranch, 1986-1988
003.09	Corwin Springs - Old Faithful Protection Act Correspondence, Memos, Statements, Clippings, Notes, Legal Materials, circa 1986-1994
003.10	Corwin Springs - Water Rights and Data Correspondence, Clippings, Data, circa 1986-1999

Box 4

File Unit	Title
004.01	Corwin Springs - Edward L. Francis Senate Testimony, July 1987
004.02	Corwin Springs - Royal Teton Ranch Impact Statement, 1987
004.03	Corwin Springs - KGRA Impact Analysis: Report to Congress Draft, Statements, and Information, 1987
004.04	Corwin Springs - Mammoth Hot Springs Study Correspondence and Data, 1987-1988
004.05	Corwin Springs - Steve Iobst Statement Regarding Draft EIS, March 1988
004.06	Corwin Springs - Protection of the Geothermal Resource Case Study, 1988
004.07	Corwin Springs - Preliminary Findings in the Corwin Springs KGRA Draft, 1988

Series Nbr Series Title

01 Geothermal Resources Development, 1979-2005 (cont'd)

Box 4 (cont'd)

File Unit	Title
004.08	Corwin Springs - Church Universal and Triumphant (CUT) Final EIS, March 1989
004.09	Corwin Springs - La Duke Hot Springs Summary and Correspondence, 1989 and undated
004.10	Corwin Springs - KGRA Correspondence and Work Plan, 1989
004.11	Corwin Springs - CUT Court Materials, 1989-1990, 1997
004.12	Corwin Springs - Effects of Potential Geothermal Development in the Corwin Springs KGRA on the Thermal Features of YNP, USGS Admin Report Draft, 1990
004.13	Corwin Springs - KGRA Impact Analysis: Report to Congress, February 1991
004.14	Corwin Springs - KGRA Impact Analysis and Risk Assessment Draft, February 1991
004.15	Corwin Springs - Effects of Potential Geothermal Development in the Corwin Springs KGRA on the Thermal Features of YNP, USGS Admin Report, 1991

Box 5

File Unit	Title
005.01	Corwin Springs - Old Faithful Protection Act of 1991 and Memo Regarding Development in Corwin Springs, 1991
005.02	Corwin Springs - Irving Friedman Testimony and Statements, 1991-1992
005.03	Corwin Springs - KGRA, 1991-1994
005.04	Corwin Springs - Controlled Ground Water Area Boundary Draft Document, December 1992
005.05	Corwin Springs - Old Faithful Protection Act Testimony, Statements, and Other Legal Materials, 1992
005.06	Corwin Springs - LaDuke Well and Draft Supplemental EIS, Articles and Correspondence, 1992-1993
005.07	Corwin Springs - CUT Final Supplemental EIS, 1993
005.08	Corwin Springs - Land Exchange with CUT, Articles and Correspondence, 1994
005.09	Corwin Springs - Royal Teton Ranch Fence Design, 1996
005.10	Corwin Springs - Geothermal Exchange Correspondence, 1999
005.11	Corwin Springs - LaDuke Hot Spring, Geothermal Considerations, undated
005.12	Corwin Springs - KGRA Maps, undated

Box 6

File Unit	Title
006.01	Corwin Springs, LaDuke, CUT Research, 1986-1990
006.02	Corwin Springs, LaDuke, CUT Correspondence, Memos, and Photographs (1 of 2), 1987
006.03	Corwin Springs, LaDuke, CUT Correspondence, Memos, and Photographs (2 of 2), 1987
006.04	Corwin Springs, LaDuke, CUT Correspondence, Memos, and Reports, 1988-1990
006.05	Corwin Springs, LaDuke, CUT Research - Sorey Report, 1991
006.06	Draft Shoshone Oil and Gas Leasing EIS Correspondence, 1992
006.07	Encroachment Articles and Correspondence, 1982-1988

Series Nbr Series Title

01 Geothermal Resources Development, 1979-2005 (cont'd)

Box 7

File Unit	Title
007.01	Geothermal Development Articles, 1990-1996
007.02	Geothermal Drilling Articles, Papers, and Petitions Against, 1988-1989
007.03	Geothermal Energy Development Near YNP: Risks, Implications, Congressional Protection Paper, 1982
007.04	Geothermal Resources Development Articles, Clippings, and Correspondence, 1983-1992
007.05	Geothermal Steam Act and Amendments, 1970-1993
007.06	Geothermal Steam Act Amendments and Correspondence, 1980-1981
007.07	Geothermal Steam Act Amendments and Correspondence, 1987-1988

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File Unit	Title
008.01	Geothermal Steam Act Amendments, Old Faithful Protection Act, 1991
008.02	Geothermal Steam Act Amendments, Old Faithful Protection Act Articles, 1991
008.03	Geothermal Steam Act Amendments, Old Faithful Protection Act Hearings, 1991
008.04	Geothermal Steam Act Amendments, Old Faithful Protection Act Hearings, Statements, 1991
008.05	Geothermal Steam Act Amendments, Old Faithful Protection Act, 1992
008.06	Geothermal Steam Act Amendments, Old Faithful Protection Act Articles, 1992
008.07	Geothermal Steam Act Amendments, Old Faithful Protection Act Hearings, Statements, 1992
008.08	Geothermal Steam Act Amendments, Old Faithful Protection Act, 1993
008.09	Geothermal Steam Act Amendments, Old Faithful Protection Act Articles, 1993
008.10	Geothermal Steam Act Amendments, Old Faithful Protection Act Hearings, Statements, 1993
008.11	Geothermal Steam Act Amendments, Old Faithful Protection Act, 1994

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File Unit	Title
009.01	Geothermal Steam Act Amendments, Old Faithful Protection Act Articles, 1994
009.02	Geothermal Steam Act Amendments, Old Faithful Protection Act Correspondence, 1994
009.03	Geothermal Steam Act Amendments, Old Faithful Protection Act Hearings, Statements, 1994
009.04	Geothermal Steam Act Amendments, Old Faithful Protection Act, 1995
009.05	Inside Park Space Heating and Hot Tubs, 1989
009.06	Island Park - Geologic Map, 1974 (?)
009.07	Island Park Geothermal Area - EIS, 1975-1979
009.08	Island Park Geothermal Area - KGRA Study Plan and Correspondence, 1977-1980
009.09	Island Park Geothermal Area - Correspondence and Statements, 1977-1996
009.10	Island Park Geothermal Area - EIS Hearings, 1979
009.11	Island Park Geothermal Area - Correspondence, Memos, Proposal, and Chronology, circa 1979

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01 Geothermal Resources Development, 1979-2005 (**cont'd**)

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File Unit	Title
010.01	Island Park Geothermal Area - Final EIS, 1980
010.02	Island Park Geothermal Area - Correspondence, Memos, Maps, Articles, 1980-1984, 1990
010.03	Island Park Geothermal Area - EIS Correspondence and Memos, 1980-1988
010.04	LaDuke Hot Springs Pre-Design Investigation and Drawdown Test, 20010-2011
010.05	Legislation and Correspondence, 1986-1987

Box 11

File Unit	Title
011.01	Microbial Ecology - Thomas R. Brock Research Correspondence and Grant Applications, 1965-1977
011.02	Microbiology - Research Projects, Meeting Agenda, Memos, 1994
011.03	Microbiology - Research Projects Lists, 1995-1997
011.04	Microorganism Research Proposals, Investigator's Annual Reports, Correspondence, 2001-2002
011.05	Mining - Geological Report on the Crevice Mountain Area Along the North Boundary of YNP, Memo and Geologic Map, August 1939
011.06	Mining - Abandoned Mine Lands, Correspondence, Memos, Meeting Minutes, 1991-1993
011.07	Mining - Tribal Consultation Letter, Confederated Salish and Kootenai Tribes of the Flathead Nation, March 2001
011.08	Mining - Jardine Mineral Hill Mine Correspondence and Memos, 1994-1996, 2000
011.09	Mining - Jardine Mineral Hill Mine Maps and Description of Area, undated
011.10	National Cancer Institute Standard Specimen Collection Agreement and Related Email, 2001
011.11	New World Mine - Cumulative Effects Model and Biological Assessment Correspondence, 1990-1995

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File Unit	Title
012.01	New World Mine - Comments on EIS Chapters and Sections (1 of 3), 1990-1996
012.02	New World Mine - Comments on EIS Chapters and Sections (2 of 3), 1990-1996
012.03	New World Mine - Comments on EIS Chapters and Sections (3 of 3), 1990-1996
012.04	New World Mine - Correspondence, Complaints (1 of 2), 1991-1994
012.05	New World Mine - Correspondence, Complaints (2 of 2), 1991-1994
012.06	New World Mine - EIS Comments, Correspondence, and Memos, 1992-1996, bulk 1996

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File Unit	Title
013.01	New World Mine - Correspondence, 1992-1995
013.02	New World Mine - Information Packet and Anti-Mine Materials, 1993
013.03	New World Mine - Correspondence, Scoping, and Project Summary, 1993-1995

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01 Geothermal Resources Development, 1979-2005 (cont'd)

Box 13 (cont'd)

File Unit	Title
013.04	New World Mine - Crown Butte Mines Incorporated (CBMI) and Noranda Reports and Articles, 1993-1996
013.05	New World Mine - Economic Evaluation (1 of 2), 1993-1995
013.06	New World Mine - Economic Evaluation (2 of 2), 1993-1995

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File Unit	Title
014.01	New World Mine - Correspondence Baucus/Kennedy/CBMI/State of Montana, circa 1993-1994
014.02	New World Mine - Clippings, circa 1993-1996
014.03	New World Mine - President Jimmy Carter Correspondence with Bruce Babbitt, 1994
014.04	New World Mine - Socioeconomic Meeting Agenda and Analysis, 1994
014.05	New World Mine - Cumulative Effects Drafts, circa 1994
014.06	New World Mine - Hard Rock Impact Board Agenda and Meeting Materials, circa 1994
014.07	New World Mine - Audit of Hard Rock Mining and Enforcement of the Water Quality and the Public Water Supply Acts, 1994, 1997
014.08	New World Mine - Freedom of Information Act (FOIA) Correspondence, 1994-1995
014.09	New World Mine - Articles and News Releases, 1994-1996
014.10	New World Mine - Citizen Correspondence, No Response Sent, 1994-1996
014.11	New World Mine - Congressionals, 1994-1996

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File Unit	Title
015.01	New World Mine - Preliminary Draft EIS Comments and Correspondence, 1994-1996
015.02	New World Mine - Newsletter, June 1995
015.03	New World Mine - Bev Nash Briefing Articles, Correspondence, Meeting Agenda, and Other Materials, 1995
015.04	New World Mine - Birch Bayh Correspondence and Various Mine-Related Articles, 1995
015.05	New World Mine - Letters to Jeff Bingaman and World Heritage Committee, 1995
015.06	New World Mine - Buyout Cost Estimate, 1995-1996
015.07	New World Mine - American Rivers Talk with Notes, 1996
015.08	New World Mine - Denver Meeting Minutes, Correspondence, and Memos, 1996
015.09	New World Mine - Unpatented Mining Claims, 1996
015.10	New World Mine - Bumpers Bill (Dale Bumpers) Correspondence, Notes, circa 1996
015.11	New World Mine - Completed Congressionals, 1996-1998
015.12	New World Mine - Briefing Materials for Conrad Burns, 1997
015.13	New World Mine - Robert A. Maynard FOIA, 1999
015.14	New World Mine - Repository Sump Monitoring Water Quality Data, 2002

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File Unit	Title
016.01	New World Mine - Chronology and World Heritage Site, 2009 and undated
016.02	New World Mine - Geologic Beds and Ground Water, undated
016.03	The Objectives for Deep Scientific Drilling Report Draft and Final, 1985, 1987
016.04	Oil and Gas - Development Correspondence, Briefing Statements and Papers, circa 1982-1983
016.05	Oil and Gas - Leasing and Development Issues, Correspondence and Notes, 1992-1994
016.06	Outside Park - Effects Correspondence and Reports, 1982
016.07	Outside Park - Resource Development (not Corwin Springs) Clippings and Correspondence, 1988-1995
016.08	Outside Park - State Legislation, circa 1991-1993
016.09	Possible Effects of Geothermal Development on Natural Thermal Areas, Article Draft with Edits, undated
016.10	Potential Effects of Production from a Geothermal Well Located near LaDuke Hot Spring Informal Report, 1987
016.11	Thermophilic Microorganism - Survey, 1994
016.12	Thermophilic Microorganisms - Research Correspondence, circa 1980-1995
016.13	Thermophilic Microorganisms - Research Permits and Correspondence, 1996-2000
016.14	U.S. Forest Service Pilot Program of Charges and Fees for Harvest of Forest Botanical Product, 2000
016.15	USGS Bibliographies and Article Orders from Hank Heasler, 2005
016.16	USGS Geothermal Well Capping Correspondence, Clippings, and Memos, 1992-1993
016.17	Yellowstone Controlled Groundwater Area (YCGA) Memos, Correspondence, Drafts, Reports, 1994-2013

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File Unit	Title
017.01	Analysis of the Waters of Apollinaris Spring, Dedolph Spring, Iron Spring, and Soda Spring Posters by the Department of Agriculture [use digital copy], circa 1906, undated
017.02	Apollinaris Spring Environmental Assessment Memo, 1979
017.03	Aquatic Research Projects List, 1990
017.04	Barlow Peak Debris Flow and Impact on Snake River Memo and Photos, 1991
017.05	Black Arrow Mercury Data, July 1989
017.06	Boiling River and Gardner River Temperatures, 2008-2009
017.07	Boiling River Discharge and Radium Analyses Letter, November 1980
017.08	Boiling River Sinkhole Write - Up, June 1989
017.09	Boiling River Temperature and Debris Correspondence, 2008-2009
017.10	Bridge Bay Marina Water Quality Sampling Results, 1993
017.11	Bridge Bay YELL Lake Level Measurements and Sonar Profiles Logbook, 1980-1985
017.12	Canary Spring Analysis, 2013

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02 Hydrology, 1906-2015 (bulk dates: 1980-2002) (cont'd)

Box 17 (cont'd)**File Unit Title**

017.13 Center for Great Lakes Studies - Small Lakes Logbook by Robert Paddock, 1989
 017.14 Chemical Analysis of Thermal Waters in Yellowstone 1960 - 1965, USGS, 1973
 017.15 Chemical Analysis of the Waters of Yellowstone National Park From 1965 - 1973
 USGS Draft, circa 1975
 017.16 Chloride Flux - Articles, 1985-2003
 017.17 Chloride Flux - Correspondence, Data, Articles, Memos, circa 1984-1994
 017.18 Chloride Flux - Interagency Agreements and Drafts, circa 1997-1998
 017.19 Chloride Flux Data and Collecting Sites - La Duke and Tantalus Creek Data and
 Correspondence, 1988-1990
 017.20 Chloride Flux - Measurements in Selected Streams by C.J. Bryan, B.E. Cornett, W.L.
 Hamilton, 1988
 017.21 Chloride Flux - Miscellaneous Collection Data and Notes, circa 1989, 2004, and
 undated

Box 18**File Unit Title**

018.01 Chloride Flux - Monitoring Plans, circa 1992-2008 (intermittent)
 018.02 Chloride Flux Data and Collecting Sites - River Chloride and Flow Graphs, undated
 018.03 Chloride Flux Data and Collecting Sites - Sampling and Data Analysis and Photos,
 1998 -2000
 018.04 Chloride Flux Data and Collecting Sites - USGS Analysis, 1998-2000
 018.05 Controlled Ground Water Area - Well Inventory and Baseline Sampling by John
 Metesh and Jody Kougioulis, February 2000
 018.06 Cooke City - Water Rights Correspondence, Legal Materials, 2000-2007
 018.07 Correspondence re: Water Sampling, 1988
 018.08 Corwin Gage House Logbook - Postfire Sediment Study, 1992
 018.09 Corwin Springs Logbook - Measurements by Sharon Sharbuck [?], 1987
 018.10 Corwin Springs Sediment Study Logbook, 1990
 018.11 Crevice Lake Diatom Record, Sheri Fritz, 2004

Box 19**File Unit Title**

019.01 Cut Well Possible Effects - Bear Creek Warm Spring Data and Surface Water
 Hydrology Chart, 1982, 1988
 019.02 Cut Well Possible Effects - Boiling River Area Data, 1989
 019.03 Cut Well Possible Effects - Boiling River Data, circa 1987-1990
 019.04 Cut Well Possible Effects - Boiling River Historical Data pre - 1986, circa 1980-1990
 019.05 Cut Well Possible Effects - Boiling River Gauge Readings, 1990
 019.06 Cut Well Possible Effects - Boiling River Graphs, circa 1988-1990 and undated
 019.07 Cut Well Possible Effects - Clematis Creek, 1989-1990
 019.08 Cut Well Possible Effects - Clearwater Spring Data, Study, and Article, 1988
 019.09 Cut Well Possible Effects - Corwin Springs KGRA Correspondence and Maps, circa
 1971-1988 (intermittent)

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Box 19 (cont'd)**File Unit Title**

019.10 Cut Well Possible Effects - Daniel Norton and Irving Friedman Correspondence and Data, circa 1989-1990

019.11 Cut Well Possible Effects - Domestic Wells Compiled Data, 1988

019.12 Cut Well Possible Effects - Gardner River, 1988-89

019.13 Cut Well Possible Effects - Gardner River Mammoth Gauging Station, circa 1987-1989

019.14 Cut Well Possible Effects - Gardner River Sinkhole Channel, circa 1988-1990

019.15 Cut Well Possible Effects - Gardner River Springs, 1990

019.16 Cut Well Possible Effects - LaDuke Area Springs Data and Notes, circa 1990

019.17 Cut Well Possible Effects - LaDuke Data, Correspondence, Articles, circa 1987-1989

019.18 Cut Well Possible Effects - Mammoth Hot Springs Data, circa 1988-1989

019.19 Cut Well Possible Effects - Mammoth Outlet Data, 1988-1990

Box 20**File Unit Title**

020.01 Cut Well Possible Effects - Obsidian Creek Data, 1988-1990

020.02 Cut Well Possible Effects - Ratings Tables, circa 1990

020.03 Cut Well Possible Effects - Sheepeater Canyon Data, 1988

020.04 Cut Well Possible Effects - University of Utah Research Institute Water Chemistry Data Reports, 1988-1990

020.05 Cut Well Possible Effects - USGS Thermal Water Study Norris - Mammoth - LaDuke Meeting Notes, Correspondence, Study Plans, 1987-1989

020.06 Ewing, Roy Field Book - Turbidity Analyses, 1987

020.07 Ewing, Roy Field Book, 1988

020.08 Ewing, Roy Field Books - Corwin, Lamar - Cable, Gardner, Bank Pin Data (Book 1 and Book 2), 1989

020.09 Ewing, Roy Field Book (and Kristin Cozza) - Floodplain Mapping, Round Prairie, Lower Soda Butte, Baronette Meadows, Upper Soda Butte, Warm Creek, 1990

Box 21**File Unit Title**

021.01 Ewing, Roy Field Book - Sediment Study, Transect Soil Sample Notes, Spot Samples at Round Prairie, 1990

021.02 Ewing, Roy Field Book - Primarily Lamar Cable - Corwin, 1991

021.03 Ewing, Roy Field Books - Yellowstone River at Corwin Springs (Seneca Webb) (2 logbooks), 1991

021.04 Ewing, Roy Field Book - Corwin and Lamar, 1992

021.05 Ewing, Roy Field Book - NASA Post - fire Water Study, Blacktail, Cache Creek, Soda Butte, 1993

021.06 Field Notes, E.M. Colvard Logbook, 1987

022.01 Field Data Book, Wayne L. Hamilton Logbook, 1980-1984

022.02 Field Notes, Wayne L. Hamilton Logbook, 1984

022.03 Field Notes, Wayne L. Hamilton Logbook, 1988

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Box 22 (cont'd)**File Unit Title**

022.04 Field Notes, Wayne L. Hamilton Logbook, 1992
 022.05 Firehole River Temperatures, 1960-1961
 022.06 Fuel Moisture Projects Data, 1991
 022.07 Fuel Moisture Projects Data Sheets, Summary Sheets, Sample Sites, 1990
 022.08 Fuel Moisture Projects Memo, September 1989
 022.09 Gardiner Water District Test Well Correspondence, Notes, and Data, 1984-1995 (bulk 1993-95)
 022.10 Gary M. Smillie Trip Report on Fluvian Erosion and Tower Culvert Air Photos, 2013-2014

Box 23**File Unit Title**

023.01 Gauging Stations - Agreements, Proposals, Correspondence, Articles, circa 2002
 023.02 Gauging Stations - Blacktail Deer Creek Rating Table, 1989
 023.02 Gauging Stations - Correspondence and Articles, 2004-2006
 023.03 Gauging Stations - Discharge and Specific Conductivity Data and Correspondence, 1983-2005
 023.04 Gauging Stations - Discharge Data for Firehole, Gibbon, and Madison Rivers, 1981-1994 (intermittent)
 023.05 Gauging Stations - Elevation Survey on the Gardner River, July 1989
 023.06 Gauging Stations - Firehole, Madison, Gibbon Flow Graphs, circa 1984-1995
 023.07 Gauging Stations - Firehole River Discharge Data, circa 1984-1985
 023.08 Gauging Stations - Gibbon River Discharge Data, circa 1984-1985
 023.09 Gauging Stations - Lamar and Soda Butte Station Correspondence, 2013
 023.10 Gauging Stations - Madison River Discharge Data, 1983-1984

Box 24**File Unit Title**

024.01 Gauging Stations - Soda Butte Northeast Entrance Level Notes, 1989
 024.02 Gauging Stations - Tantalus Creek at Norris Junction Data, 1998-2004
 024.03 Gauging Stations - Tantalus Creek at Norris Junction Data and Related USGS Article, 2005, 2007
 024.04 Gauging Stations - USGS Interpretive Reports Using YNP Gauging Station Data, 1970-1994
 024.05 Gauging Stations - Water Temperatures, 1992
 024.06 Geological Features and Studies - Water, Bulk Yellowstone Lake Level, 1966, 1984
 024.07 Geothermal Monitoring Water Discharge and Chloride Flux USGS Reports, Correspondence (1 of 2), 1980s-1990s
 024.08 Geothermal Monitoring Water Discharge and Chloride Flux USGS Reports, Correspondence (2 of 2), 1980s-1990s
 024.09 Geothermal Monitoring Water Discharge and Chloride Flux - Falls River Canal Correspondence and News Clipping, 1992
 024.10 Geothermal Waters Logbook, May 1993

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024.11	Gibbon River Bridge Leaking Corehole Report and Photographs, 2004
024.12	Greenness Factor Study - Arnica Creek Maps, Site Description Data, Field Forms, 1989 -1990
024.13	Greenness Factor Study - Blacktail Maps and Field Notes, 1990
025.01	Glaciers - Correspondences, Memos, 1960-1963
025.02	Glaciers - Correspondence, Memos, 1963-1964
025.03	Glaciers - Glaciers, Ice and Frost Action Correspondences, 1965-1966
025.04	Glaciers - Grasshopper Glacier Photographs and Notes (1 of 2), circa 1918-1935, 1962-1963
025.05	Glaciers - Grasshopper Glacier Photographs and Notes (1 of 2), circa 1918-1935, 1962-1963
025.06	Glaciers - Grasshopper Glacier by John M. Good and Roderick (Rick) Hutchison Letter on Glaciation, 1982 and undated
025.07	Glaciers - Ice and Glaciers Correspondence, Memos, and Reports Summary, 1946, 1952
025.08	Glaciers - Sunlight Glacier Photographs, Notes, Map, 1934(?), 1963

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File Unit	Title
026.01	Greenness Factor Study - Hayden Valley Maps, Site Description Data Sheet, Field Forms, 1990
026.02	Greenness Factor Study - Roaring Mountain Maps, Field Forms, Site Description Data Sheets, 1990
026.03	Greenness Factor Study Summary and Field Data, 1989
026.04	Groundwater Chemistry Results Logbook, September 1991
026.05	Ground - Water Investigations in YNP by USGS and NPS, September 1964
026.06	Grouting Operations at Various Wells Summary Descriptions, 1993
026.07	Hatch, Karen Field Book - Corwin and Lamar, 1992
026.08	Heat Flow - Yellowstone Lake Annual Report, 1987
026.09	Henrys Fork Springs Study by Lyn Benjamin, January 2000
026.10	Hydrographs for Yellowstone, Firehole, Gibbon, and Madison Rivers, 1984
026.11	Hydrologic and Water Quality Data Related to the Occurrence of Arsenic for Arcas Along the Madison and Upper Missouri Rivers Abstract and Release - L.K. Tuck, 1997
026.12	Hydrothermal Alteration Memo and Resources (Rick Hutchinson), undated
026.13	Hydrothermal/Geothermal Monitoring Logbook - Mammoth Outlet, Gardner River, LaDuke, Boiling River, 1988-1989
026.14	Keetch - Bryan Drought Index - East Entrance and Fisher Creek (East Entrance Incomplete), 1984, 1991

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File Unit	Title
027.01	Kettle Pond Study, 1992

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02	Hydrology, 1906-2015 (bulk dates: 1980-2002) (cont'd)

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File Unit	Title
027.02	Lake Level Gage #1, Bridge Bay - Wayne L. Hamilton Logbook, 1983-1991
027.03	Lake Level Gage #2, Trail Creek - Wayne L. Hamilton Logbook, 1983
027.04	Lake Level Gage #2, Grant Marina - Wayne L. Hamilton Logbook, 1983-1989
027.05	Lake Level Gage #3, Lake Butte Logbook, 1984-1987
027.06	Lake Level Measurements Logbook, 1994

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028.01	Lake Level Monitor Data [from Wayne Hamilton's Office], 1980s(?)
028.02	Lake Level - Butte 4444 ADP [from Wayne Hamilton's Office], 1984
028.03	Lake Levels - Data [from Wayne Hamilton's Office], 1985 and undated
028.04	Lake Weather Data, Air Quality Station [from Wayne Hamilton's Office], 1988

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File Unit	Title
029.01	Lake Levels - Data [from Wayne Hamilton's Office], circa 1921-1975
029.02	Lake Levels - Deformation Record at Yellowstone Caldera 1923 - 1986 from Water Level Measurements, Notes and Data [from Wayne Hamilton's Office], 1980s
029.03	Lake Levels - Regression Analysis, Water Level, Discharge, and Notes [from Wayne Hamilton's Office], 1980s

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030.01	Lakes (Geology) Correspondence, 1946-1953
030.02	Lamar Gage House Logbook - Postfire Sediment Study, 1992
030.03	Lamar - Tower Gage House Book (Logbook), 1991
030.04	Landslide and Debris Flow off Barlow Peak and Impact on Snake River Memo, October 1991
030.05	Leveling, Wayne L. Hamilton Logbook, 1989
030.06	Leveling #1 Gages on Lakes Logbook, 1984-1989
030.07	Leveling 1990 - 1992, Zion Fieldwork 2001 Logbook, 1990-1992, 2001
030.08	Logbook/Survey Book by Nami Kitchen, 1992

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File Unit	Title
031.01	Long - term Goals for Water Resources Management Program, undated
031.02	Marysville Canal - Falls River Hydroelectric Project Correspondence, License Application Reviews, Studies, Comments, 1988-1989
031.03	Marysville Canal - Falls River Monitoring Correspondence, 1993-1995
031.04	Marysville Canal - Various Orders and Notices from the Federal Energy Regulatory Commission, circa 1990-1993

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031.05	Mercury Samples Results, 1971
031.06	Micrologger Data for Monitor Creek, 1980-1981
031.07	Monitor Creek and Elk Antler Creek Depth, Temperature, and Miscellaneous Data, 1982-1983
031.08	Monthly Precipitation Summary and Observer Forms, 2013
031.09	Mount Everts Debris Flows and Damming of the Gardner River Report Draft, 2008
031.10	Nez Perce Bridge Federal Highways Drill Hole Photos, November 1992
031.11	New World Mine Ferricrete Paper by George Furniss and Joseph T. Gurrieri, 2006
031.12	Outflow Measurements Logbook, 1993
031.13	Peale Island Cabin Erosion Report, 2014
031.14	Pelican Creek Summary, undated
031.15	pH Calibrations and Field Data Logbook (YSI - 63), 2008-2017
031.16	pH Calibrations and Field Data Logbook (YSI - 63 #2), 2011-2015

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File Unit	Title
032.01	Phantom Lake Mapping Notes, 2011
032.02	Physical Science Field Station Logbook, 1987-1988
032.03	Primrose and Clematis Creek Drainage and Hill Stabilization Memos, 1997-1998
032.04	River Terraces Levels - Wayne L. Hamilton Logbook, 1985-1986
032.05	Sediment Study Field Book (Jana Mohrman), 1987
032.06	Soda Butte - Cheryl Taylor Monitoring Correspondence, circa 2002
032.07	Soda Butte Creek - Metal Loading in Soda Butte Creek Upstream of YNP Manuscript Draft by Gregory Boughton, January 2001
032.08	Soda Butte Creek - Metal Loading, Water Quality Reports and New World Mining District Response and Restoration Project Summary, 2002
032.09	Soda Butte Creek - Mine Tailings Sediment Contamination Report by Grant A. Meyer, August 1992
032.10	Soda Butte Creek - Road Bank Erosion Sketches and Reconnaissance, circa 2004
032.11	Soda Butte Creek Stabilization (Riprap), 2010-2011

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File Unit	Title
033.01	Soda Butte Creek - Trip Report Memos and Correspondence Primarily re: Water Monitoring and Montana Reserved Water Rights Compact, circa 1990-1995
033.02	SONYEW Numbering Yellowstone Streams and Lakes, 1986
033.03	Sources and Quantities of Suspended Sediment in the Yellowstone River and Selected Tributary Watersheds Progress Report - Ronald D. Jones, December 1986
033.04	Spring Inventory and Baseline Sampling of the Yellowstone Controlled Ground Water Area by John J. Metesh, July 2003
033.05	Stream Bank Stabilization Memos, Correspondence, Trip Report, 2009, 2012-2013
033.06	Stream Classification Logbook - Mohrman, 1988
033.07	Streambed Temperature Field Book, 1991-1992 (bulk 1992)

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033.08	Summit Lake North Thermal Area Level Book (Logbook), 1980
033.09	Survey Book, Hayden Valley (Logbook), 1993
033.10	Thermal Water Chemistry and Sample Collection Memos, Correspondence, and Data, 1976, 1983, 1992
033.11	Thermometer Calibration Data and Notes, 1993 and undated
033.12	Tower Air Quality Station Notes, 2013
033.13	Tower Junction Conference Call Notes, 2014
033.14	Trout Creek Dump/Landfill Report, 1991
033.15	Turbid Lake Bathymetry and Correspondence, 1978, 1991
[FF OVZ]	Turbid Lake (Hydrothermal Explosions), undated [request FF 15, F5]
033.16	USGS Water Resources Division Analytical Statements, circa 1974-1975

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File Unit	Title
034.01	Water Data - Chemical Analysis North Entrance, 1981-1989
034.02	Water Data - Church Universal and Triumphant/LaDuke, 2008
034.03	Water Data - Water Resources Correspondence, Report, Data, circa 1989
034.04	Water Sample Log by Cathy Nist, 1990
034.05	Water Chemistry Reports, 1988
034.06	Water Monitoring (Not Geothermal), circa 1983-1993
034.07	Water Quality-Clematis/Primrose Creeks Sediment Transport Cond. Trip Report, 1998
034.08	Water Quality Data - Bear Creek, Sheepeater, Hot River, Clearwater, Yellowstone, Sawmill, Hidden, Mammoth, and Miscellaneous, circa 1988
034.09	Water Quality - Streambank Trampling Guidelines Draft, Riparian Monitoring, Reach Site Selection, 2008 and undated
034.10	Water Quality - Tower Erosion/Sedimentation Watershed Memo Draft, 1992
034.11	Water Quality - Tower Junction Wetland Briefing Statement Correspondence, 2013
034.12	Water Resource Assessment for the Post - Fire Resource Assessment and Recovery Program, November 1988
034.13	Water Resource Study Requirements for Five Year Plan, 1989
034.14	Water Use Permits Correspondence, Memos, Permit Application (1 of 2), 1994-1995
034.15	Water Use Permits Correspondence, Memos, Permit Application (2 of 2), 1994-1995
034.16	Water Temperature Field Book, 1990-1993 (bulk 1990)

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035.01	Water Temperature Results Logbook, 1989-1990
035.02	Weekly Field Run Field Book (Debra Murray) - Northeast Entrance, Soda Butte, Lamar, Slough, Tower, Blacktail, Lava, Tom Miner, Mol Heron, Corwin Springs, Gardner River, 1989
035.03	Weekly Field Run Field Book (Jana Mohrman) - Northeast Entrance, Soda Butte, Lamar, Slough, Tower, Blacktail, Lava Creek, Tom Miner, Mol Heron, Corwin Springs, Gardner River, 1989

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02	Hydrology, 1906-2015 (bulk dates: 1980-2002) (cont'd)

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File Unit	Title
035.04	Weekly Field Run Book (Patti Olsen) - Northeast Entrance, Soda Butte, Lamar, Slough Creek, Tower, Blacktail, Lava, Tom Miner, Mol Heron, Corwin Springs, Gardner River, 1989
035.05	Well #1 Samples Report - Stevens Creek, 1965
035.06	Well at Shooting Star Ranch Summary, 2009
035.07	Well Inventory and Baseline Data Collection Draft Proposal, March 1993
035.08	Well Log Data, undated
035.09	Wells at Norris and Tower Note, undated
035.10	Well on River Route 490 Helium and Temperature Letter, October 1986

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File Unit	Title
036.01	Yellowstone Lake Notes on Research and NPS Role in Research, undated
036.02	Yellowstone Lake - Shoreline Studies, Wayne L. Hamilton Logbook, 1989-1994
036.03	Yellowstone Lake - Spires Discovery and "Show and Tell" by Paul Doss, 2000-2001
036.04	Yellowstone River Near Canyon Hotel Rating Tables and Related Correspondence and Memo, circa 1933-1937

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037	Hygrothermographs and Observations, 1973-1979, 1989-1999
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Box

038	[Left Empty for Future Use]
039	[Left Empty for Future Use]

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03	Paleontology, 1996-2011

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File Unit	Title
040.01	Annual Performance Plan and Data System, Assessment Locations, 2009-2010
040.02	Annual Report - Geological Resources Management, 2000
040.03	Annual Report, 2001
040.04	Annual Report, 2002
040.05	Annual Report for Fiscal Year 2003, Paleontology Brief for Superintendent's Report, 2004
040.06	Brown Box Bone (Returned Dinosaur Fossil) Correspondence [RESTRICTED], 2002
040.07	Buffalo Plateau Ammonite Site Maps, Photographs, Field Notes [RESTRICTED], 2001
040.08	Buffalo Plateau Coral/Ammonite Site Map, Photographs, Correspondence [RESTRICTED], 2000
040.09	Calfee Creek Cabin (YELL 1976) Locality Forms [RESTRICTED], 2001
040.10	Caution: Debris on Road, Mt. Everts Article for Buffalo Chip by Elaine Hale, undated

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Box 40 (cont'd)

File Unit	Title
040.11	Channing, Alan - Geothermally Influenced Wetlands Project Proposal and Correspondence, 2003-2004
040.12	Correspondence, Primarily to and from Elaine Hale, 2001
040.13	Correspondence Regarding Fossil Collection, 1999
040.14	Cobban, W. A. (Bill) Correspondence, Maps Regarding Mt. Everts, 2001-2002
040.15	Curation of Specimen Correspondence, 2000
040.16	Daly Creek Trail Inventory Photographs, Negatives, and Descriptions [RESTRICTED], 2000
040.17	Daly Creek Trail Survey [RESTRICTED], 2000
040.18	Digital Microscope Photos - Hyoliths, Trilobites Ptycoferius, 2002
040.19	Dor Island Bison Bones Correspondence, Report by Kenneth Cannon, 1997
040.20	East Entrance Road Project Impact on Geological and Paleontological Resources Reports, Correspondence, Articles, Maps, 1994-2003
040.21	Fitzke, Julia - Paleontological Resource Surveys Work plans, Correspondence, and Reports, 2002-2003
040.22	Fossil Bird/Elk Park Map, Notes [RESTRICTED], 2008
040.23	Fossil Forests Correspondence, Site Bulletin, Locations, Photographs [RESTRICTED], 2000
040.24	Fossil Forests and Hoodoos Correspondence, Photos, and Reports from Lee Silliman [RESTRICTED], 2003-2005
040.25	Fossil Pine Cone Correspondence, Reports, Return to Park, 2000-2006
040.26	Fossil Policy Correspondence, Minutes, Memos, 1999

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File Unit	Title
041.01	Fossils in Hydrothermal Areas Correspondence, Argentina Article, 2010
041.02	Funding - SEPAS Project Funding Status Report and Correspondence, 2000
041.03	Gardiner Canyon Shell Site, Mt. Everts Landslide (YELL 2952) Field Notes, Memos, Correspondence, Photos, Locality Forms [RESTRICTED], 2001
041.04	Garmin GPS Log [RESTRICTED], 2001
041.05	Goal Ia9 Paleontological Localities Condition, Problem Comments, 2007, 2010-2011
041.06	Geological Features and Studies - Paleontology Memos and Correspondence, 1985-1986
041.07	Geological Features and Studies - Paleontology Correspondence, 1987
041.08	Inventory/Protect Paleontological Resources Project Proposal, 1996
041.09	Investigator's Annual Reports, Correspondence, Memos, 2002
041.10	Jeweled Cave Correspondence, Slides, Research Notes, 1990, 1992, 2006
041.11	Justice Center Pine Tree Findings and Tree-Ring Research Record, John King, 2007, 2009
041.12	Lake Butte Fossil Discovery Reports and Article, 1994
041.13	Lamar River Trail Fossil Leaf Site [RESTRICTED], undated
041.14	Mammoth to Tower Road Debris Fossil Map, Report, Correspondence [RESTRICTED], 2000

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File Unit	Title
041.15	Microbial Fossils Correspondence, Notes, 2000
041.16	Miller Creek Leaf and Tree Site (YELL 1976) Locality Form, Field Notes, Maps [RESTRICED], 2001
041.17	Miller Creek Petrified Forest Preliminary Report, 1961
041.18	Miscellaneous Notes on Petrification, Abstract and Summary of the Paleontology of YNP, 1929-1932
041.19	Mt. Hornaday Fossil Reconnaissance Maps, Photos, Notes, Correspondence, 1999
041.20	Mt. Everts - Section Drawing from Charles Brown Thesis, 1957
041.21	Mt. Everts - Maps and Correlation Charts, 1990
041.22	Mt. Everts - Plesiosaur, Paleontological Resource Management Summary and Survey Meeting, 1996
041.23	Mt. Everts - Funding Request for Inventory and Multi-Disciplinary Assessment of Stratigraphy and Erosion, 2000
041.24	Mt. Everts - Paleontologic Survey Field Notes (Photocopy), 2001
041.25	Mt. Everts - West Face Coral Site [RESTRICED], 2001
041.26	Mt. Everts - Paleontologic Inventory and Multi-Disciplinary Assessment of Stratigraphy Progress Report, Abstract, 2001-2002
041.27	Mt. Everts - Paleontologic Survey and Plesiosaur Discovery Field Notes and Correspondence [RESTRICED], 2001-2002
041.28	Mt. Everts - Plant Fossil Correspondence, Work Plan, Budget Materials, Planning Correspondence, 2001-2002
041.29	Mt. Everts - Research and Collecting Permits and Correspondence, 2001-2002

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File Unit	Title
042.01	Mt. Everts - Fossil Location Maps [RESTRICED], 2002
042.02	Mt. Everts - Correspondence to Elaine Hale, Article Notes, 2002-2004
042.03	Mt. Everts - Correspondence on Lab Samples, Radiometric Dating Planning, 2003
042.04	Mt. Everts - Cretaceous Complexities: The Stratigraphic Intricacies of Mt. Everts Project Report Draft, Correspondence, 2003-2004
042.05	Mt. Everts - Cretaceous Western Interior Basin and Seaway Draft, Geochronology Results from the Gallatin Valley, 2003-2004
042.06	Mt. Everts - Study/Ashes Correspondence, Geochronology Results Report, 2004
042.07	Mt. Everts - Cretaceous Complexities: The Stratigraphic Intricacies of Mt. Everts NPS/USGS Publication and Drafts, 2004
042.08	Mt. Everts/Rescue Creek (YELL-1976) Catalog Worksheets, Maps, Correspondence [RESTRICED], 1999-2002
042.09	Mowry Footbridge Site (YELL-2952) Locality Forms, Field Notes, Map [RESTRICED], 2001
042.10	Nancy's Fishing Hole Fossil Leaf Site Photographs, Notes, Maps, Field Notes [RESTRICED], 2001
042.11	Natural Resource Challenge Reports Instructions, Paleontology Progress Reports, Inventory and Multi-Disciplinary Assessment Mt. Everts, 2000-2002

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03	Paleontology, 1996-2011 (cont'd)

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File Unit	Title
043.01	Natural Resource Map, Paleontological Resources, 1998, 2002
043.02	Non-Archaeological Excavations - Gardiner, Corresp., Photos, Maps, Notes, 2004
043.03	Non-Archaeological Excavations - Mammoth, Correspondence and Photos, 2004
043.04	Non-Archaeological Excavations - Old Faithful Pub Correspondence, 2009
043.05	Paleoelevation and Climate Studies of Ancient Rocky Mountains Articles and Correspondence, 2000-2004
043.06	Paleontology (Fossils) Memos and Correspondence, 1953-1956
043.07	Paleontology (Fossils) Memos and Correspondence, 1957-1964
043.08	Paleontological Resource Inventory and Monitoring, Greater Yellowstone Network by Alison L. Koch and Vincent L. Santucci, June 2003
043.09	Paleontological Resource Locality Form and Locality Condition Assessment Worksheet (blank), 2006
043.10	Paleontological Resource Survey Funding and Grant Requests, 2000-2002
043.11	Paleontological Resources Preservation Act Regulations and Preamble Draft, July 2010
043.12	Paleontological Survey Report, Memos, Correspondence, and Agreements, 1996-1998
043.13	Pebble Creek Site Photographs, Slides, Correspondence [RESTRICTED], 2000
043.14	Pebble Creek Horn Coral Site (YELL-1976) Locality Form, Map, Photographs [RESTRICTED], 2000
043.15	Pelican Creek Clay Deposits and Rainbow Springs Tuff, 1960, 1963
043.16	Petrified Sequoia Trees, Paul A. Young [RESTRICTED], 1935
043.17	Photographs - Paleontology Summer, 2002
043.18	Plant Fossils and Petrified Wood Excavation at East Entrance Photographs, Memos, Articles, 1994
043.19	Plesiosaur Photographs, 2001
043.20	Plesiosaur Wash Site Visit and Collection Survey, Photographs [RESTRICTED], 2001
043.21	Program Goals for Fiscal Year 2002, 2001
043.22	Referred Fossils Report - Mt. Holmes, 1967
043.23	Report and Recommendations for Paleontological and Geological Resources Affected by Road Widening between Sylvan Pass and East Entrance, February 2003

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File Unit	Title
044.01	Repository Project/Inventory of Fossils Collected in YNP but Stored Elsewhere, 2000-2001
044.02	Scott's Leaf Site on Mt. Everts (YELL-2952) Locality Forms, Photographs, Correspondence [RESTRICTED], 2001
044.03	Silliman, Lee Specimen Creek Correspondence (Fossil Trees), 2003
044.04	Specimen Creek/Black Butte/Daly Creek Fossil Forest/Gallatin Petrified Forest Notes, Photographs, Surveys, Maps [RESTRICTED], 2000-2003
044.05	Specimen Ridge Exhibit and Creationists Correspondence, 2003-2009
044.06	Trilobite Illustrations by Madsen, 2002
044.07	Trilobite Point - Abstracts, Photographs, 2002
044.08	Trilobite Point - "Ground Breaking Field Study" Article Draft by Diane Smith, 2002

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Box 44 (cont'd)

File Unit	Title
044.09	Trilobite Point - Inventory Crew List, Specimen Registration Forms (YELL-2412) [RESTRICTED], 2002
044.10	Trilobite Point - Maps and Spatial Data [RESTRICTED], 2002
044.11	Trilobite Point - Photographs, 2002
044.12	Trilobite Point - Report Draft, Correspondence, 2002
044.13	Trilobite Point - Survey Field Notes, 2002
044.14	Trilobite Point - Administrative Correspondence, 2002-2005
044.15	Trilobite Point - Survey Report Draft by Julia Fitzke and Elaine Skinner Hale [RESTRICTED], 2003-2004

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File Unit	Title
045.01	Trilobite Point - Trip Journal, undated
045.02	Trilobite Lake Field Trip Locality Forms, Field Notes, Maps, GPS Data [RESTRICTED], 2002
045.03	University of Aberdeen Fossil/Hot Springs Research Correspondence, Proposal, 1999
045.04	University of Bonn Specimen Ridge, Pebble Creek Locales Correspondence, 2002
045.05	Wall, Bill (Georgia College) Correspondence, Notes, 1999-2004
045.06	Whitebark Pine and Mudkettle Tree-Ring Research Record and Correspondence, John King [RESTRICTED], 2007
045.07	Whitman Leaf Fossils (YELL-1852) Memos, Notes, Maps [RESTRICTED], 1999
045.08	Work Plans: Mt. Everts and Sylvan Pass, 2001
045.09	Yearly Synopsis of Paleontology Activities Correspondence, Memo, YCR Annual Report, 1999-2000
045.10	The Yellowstone Paleontological Survey by Vincent L. Santucci, 1998
045.11	Yochelson, Ellis L. Correspondence, 2002

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Series Nbr	Series Title
04	Rocks, Soils, and Minerals, 1920-2012 (bulk dates: 1980-2008)

File Unit	Title
048.01	Astronomical Phenomena Letter and Article, 1981
048.02	Bannock Peak, Southern Gallatin Range Stratigraphic Section of Mississippian Rocks by Albert Roberts et al, 1964
048.03	Boreholes - Deep Drilling in Yellowstone Memos, 1984
048.04	Boreholes - Mesa Pit Notes, 2007
048.05	Boreholes - Mesa Pit to Lake Drilling Notes, 2007

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04 Rocks, Soils, and Minerals, 1920-2012 (bulk dates: 1980-2008) (cont'd)

Box 48 (cont'd)**File Unit Title**

048.06 Boreholes - Canyon Notes, 2007-2008
 048.07 Boreholes - Cutting and Drilling Methodology, circa 2007-2008
 048.08 Boreholes - Canyon, Norris, Grant Notes, 2008
 048.09 Boreholes - Grant, 2008
 048.10 Boreholes - Grant Notes (Abandoned), 2008
 048.11 Boreholes - Madison Lithology, Panther Creek Notes, 2008
 048.12 Boreholes - Lake, 2009
 048.13 Boreholes - Norris Lithology and Notes, 2009
 048.14 Boreholes - Lithologic Logging, 2009 and undated
 048.15 Boreholes - Quotes for Geochemical Analysis, 2010
 048.16 Boreholes - Rare Earth Element Plots and Element Data, 2012
 048.17 Boreholes - Diagrams and Data, undated
 048.18 Contact Relations Between Rhyolite and Basalt on Gardiner River by Ray Wilcox, December 1939
 048.19 East Entrance Mudslides News Release, 2004
 048.20 Extraordinary Contact Effects of Rhyolite Upon Basalt by C.N. Fenner, undated
 048.21 Geological Features and Studies: Rocks and Minerals Correspondence, 1984
 048.22 Grain Mount Notes from Lab Notebook, Observations and Correspondence, 2008, 2015, undated
 048.23 Grand Tetons Topsoil Study Correspondence, Progress Report, Memos, 1990-1991

Box 49**File Unit Title**

049.01 Mammoth Crystal Spring Lake Core Collection and Analysis Project Correspondence with Cathy Whitlock (Sylvan Pass Area), circa 2006-2007
 049.02 Mammoth Crystal Springs Sediment Core Collection and Analyses, Sylvan Pass Area Reports, 2007
 049.03 Mercury Soil Analysis Lab Notebook, 1989
 049.04 Mercury Soil Analysis Logbooks (1 of 6), 1989
 049.05 Mercury Soil Analysis Logbooks (2 of 6), 1989
 049.06 Mercury Soil Analysis Logbooks (3 of 6), 1989

Box 50**File Unit Title**

050.01 Mercury Soil Analysis Logbooks (4 of 6), 1989
 050.02 Mercury Soil Analysis Logbooks (5 of 6), 1989
 050.03 Mercury Soil Analysis Logbooks (6 of 6), 1989
 050.04 Miscellaneous Sample Data, circa 1988-1991 and undated
 050.05 Molten Sulfur Flows Notes and Maps, circa 2004 and undated
 050.06 Radiocarbon Dating Results From Beta Analytic Int., 1993, 1996
 050.07 Radon Laboratory Logbook Pages, 1989
 050.08 Radon Monitoring Installation Location and Dates, 1984
 050.09 Radon Monitoring Record Logbook, 1982-1987

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Box 50 (cont'd)**File Unit Title**

050.10 Radon Monitoring Record Logbook, 1987

Box 51**File Unit Title**

051.01 Radon Monitoring Logbook (Pylon AB-5), 1988

051.02 Radon Sampling Field Book by Elizabeth Colvard, 1986

051.03 Rock Slide Maps, undated

051.04 Rocks and Minerals (General Correspondence), 1947-1953

051.05 Rocks and Minerals Correspondence, 1953-1956

051.06 Rocks, Minerals, Fossils, and Algae (Requests and Specimens) Correspondence, 1948-1953

051.07 Rocks and Minerals Correspondence, 1957-1961

051.08 Rocks and Minerals Correspondence, 1962

051.09 Rocks and Minerals Correspondence, 1964

051.10 Rocks and Minerals Correspondence, 1965

051.11 Rocks and Minerals Correspondence, circa 1979-1989

051.12 Rocks and Minerals Correspondence, 1985-1987

Box 52**File Unit Title**

052.01 Scanning Electron Microscope Logbook and Use Notes, 1992

052.02 Section of Sedimentary and Igneous Rocks of YNP and Vicinity, undated

052.03 Soil-Sediment Dating Logbook, 1993-1994

052.04 Soil Mercury and Radon Analysis Logbooks by Janice Hudgings (1 of 2), 1988

052.05 Soil Mercury and Radon Analysis Logbooks by Janice Hudgings (2 of 2), 1988

052.06 Soil Polygon Summaries- Greater Yellowstone Burn Area, Hebgen Elk Winter Range, Upper Yellowstone Winter Range, Madison River, and Whitebark Pine Burn Report, 1988

052.07 Soil Sample Logbook, 1988

Box 53**File Unit Title**

053.01 Soil Survey - Flight Line 2 Data Sheets, 1993

053.02 Soil Survey - Flight Line 3 Data Sheets, 1993

053.03 Soil Survey - Flight Line 4 Data Sheets, 1993

053.04 Soil Survey - Flight Line 5 Data Sheets, 1993

053.05 Soil Survey - Flight Line 6 Data Sheets, 1989-1993

053.06 Soil Survey - Flight Line 7 Data Sheets, 1989-1993

053.07 Soil Survey - Flight Line 8 Data Sheets, 1989-1993

053.08 Soil Survey - Flight Line 9 Data Sheets, 1989-1993

053.09 Soil Survey - Flight Line 10 Data Sheets, 1990-1993

053.10 Soil Survey - Flight Line 11 Data Sheets, 1990-1993

053.11 Soil Survey - Flight Line 12 Data Sheets, 1990-1992

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054.01 Soil Survey - Flight Line 13 Data Sheets, 1989-1993
 054.02 Soil Survey - Flight Line 14 Data Sheets, 1988
 054.03 Soil Survey - Flight Line 15 Data Sheets (and aerial photo), 1981-1993
 054.04 Soil Survey - Flight Line 16 Data Sheets, 1986-1994
 054.05 Soil Survey - Flight Line 17 Data Sheets, 1988-1995
 054.06 Soil Survey - Flight Line 18 Data Sheets, 1989-1993
 054.07 Soil Survey - Flight Line 19 Data Sheets, 1989-1992
 054.08 Soil Survey - Flight Line 20 Data Sheets, 1987-1994

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055.01 Soil Survey - Flight Line 21 Data Sheets, 1990-1994
 055.02 Soil Survey - Flight Line 22 Data Sheets, 1990-1994
 055.03 Soil Survey - Flight Line 23 Data Sheets, 1989-1994
 055.04 Soil Survey - Flight Line 24 Data Sheets, 1989-1992
 055.05 Soil Survey - Flight Line 25 Data Sheets, 1989-1991
 055.06 Soil Survey - Flight Line 26 Data Sheets, 1989-1991
 055.07 Soil Survey - Flight Line 27 Data Sheets, 1989-1991
 055.08 Soil Survey - Flight Line 28 Data Sheets, 1991-1994

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056.01 Soil Survey - Flight Line 29 Data Sheets, 1991
 056.02 Soil Survey - Flight Line 30 Data Sheets, 1991
 056.03 Soil Survey - Flight Line 31 Data Sheets, 1989-1991
 056.04 Soil Survey - Flight Line 32 Data Sheets, 1986-1992
 056.05 Soil Survey - Flight Line 33 Data Sheets, 1988-1994
 056.06 Soil Survey - Flight Line 34 Data Sheets, 1989-1994
 056.07 Soil Survey - Flight Line 35 Data Sheets, 1989-1994
 056.08 Soil Survey - Flight Line 36 Data Sheets, 1990-1994

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057.01 Soil Survey - Flight Line 37 Data Sheets, 1989-1994
 057.02 Soil Survey - Flight Line 38 Data Sheets, 1992-1994
 057.03 Soil Survey - Flight Line 39 Data Sheets, 1994
 057.04 Soil Survey - Flight Line 40 Data Sheets, 1989-1992
 057.05 Soil Survey - Flight Line 41 Data Sheets, 1990-1992
 057.06 Soil Survey - Flight Line 44 Data Sheets, 1989
 057.07 Soil Survey - Polygon Summaries for Yellowstone, Targee National Forest, and Shoshone National Forest, 1988
 057.08 Speleology - Correspondence and Reports, 1954-1959
 057.09 Speleology - Crevice Mtn Ore Sample Hauling and Inside Earth Corresp., 1993, 1998

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057.10 Speleology - Implementing Federal Cave Resources Protection Act Correspondence, 1989, 1990

057.11 Speleology - Inventory and Protect Cave Resources Project Statement Sheet, 1995 (?)

057.12 Speleology - Inventory Proposal by Thomas Miller, Indiana State University, 1989

057.13 Speleology - Report on the Ice Cave in Northeastern Idaho by C. Max Bauer, June 1939

057.14 Stratigraphic Crosssections of Various Lakes and Shorelines, Paleo-Fire Incidence Reconstruction for Yellowstone Lake Basin, 1975, 1980-1982 and undated

057.15 Structural and Petrologic Characteristics of Rhyolite Flows by Mary Oswald Griffiths, 1946

057.16 Summary of Yellowstone Geologic History (table), undated

057.17 Tephrochronology Laboratory Report from Malin Creek (USGS), 2007

057.18 Unadjusted Field Elevations, 1920, 1960, 1983

057.19 USGS Level and Trilateration Surveys Memos and Trip Reports (uplift), 1984-1985, 1988

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05 Seismology and Volcanology, 1920-2016

Box 60**File Unit Title**

060.01 Earthquakes by C. Max Bauer, circa 1920

060.02 Earth Movements [earthquakes] Correspondence and Memos, 1940-1942

060.03 Earthquake Report and Chronology and Maps of Earthquakes in YNP Region, 1942-1959

060.04 Earth Movements [earthquakes], 1944-1948

060.05 Earthquake Data Request Letter by U.S. Coast and Geodetic Survey Office to Chief Ranger Francis D. LaNoue, 1947

[FF OVZ] Identified Earthquake Fault Systems within Yellowstone National Park, 1950(?)
[request FF 15, F12]

060.06 Earthquake Damage Correspondence, 1954

060.07 Volcanology - Correspondence and Memos, 1954-2000 (intermittent)

060.08 Earthquakes and Earthquake Damage Correspondence, Memos, Articles and Reports (1 of 4), circa 1958-1959

060.09 Earthquakes and Earthquake Damage Correspondence, Memos, Articles and Reports (2 of 4), circa 1958-1959

060.10 Earthquakes and Earthquake Damage Correspondence, Memos, Articles, and Reports (3 of 4), circa 1958-1959

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File Unit	Title
060.11	Earthquakes and Earthquake Damage Correspondence, Memos, Articles, and Reports (4 of 4), circa 1958-1959
060.12	Earthquake Possibilities and Epicenters Maps, Articles, 1958-1976 (intermittent)
060.13	1959 Earthquake Correspondence, Memos, Statements, 1959

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061.01	1959 Earthquake Memos, Correspondence, Articles - Hebgen (1 of 4), 1959
061.02	1959 Earthquake Memos, Correspondence, Articles - Hebgen (2 of 4), 1959
061.03	1959 Earthquake Memos, Correspondence, Articles - Hebgen (3 of 4), 1959
061.04	1959 Earthquake Memos, Correspondence, Articles - Hebgen (4 of 4), 1959
061.05	1959 Earthquake Epicenter and Aftershock Correspondence, Data and Maps, 1959

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062.01	1959 Earthquake Reports and Observations (1 of 2), 1959
062.02	1959 Earthquake Reports and Observations (2 of 2), 1959
062.03	Building and Road Damage Correspondence, Memos, Reports, Photographs, and Map, circa 1959
062.04	Earthquake Epicenters Map and Correspondence, 1959
062.05	Hebgen Earthquake Area Photographs, 1959
062.06	Seismic History of Yellowstone Park and Vicinity in Relation to Known and Suspected Faults Map, circa 1959
062.07	Earthquake Newspaper Clippings, August 1959
062.08	Prospectus for Wayside Interpretation of Effects of August 1959 Earthquakes by Norman Herkenham, October 1959
062.09	Seismicity of Yellowstone National Park Received from Leonard Murphy of Coast and Geodetic Survey, circa 1959 (?)
062.10	Emergency Interpretive Earthquake Study Reports, Correspondence, Memos, 1959-1960
062.11	Emergency Interpretation Study of Earthquake Phenomena Reports, Memos, Correspondence, 1959-1960
062.12	Monthly Progress Reports on Emergency Interpretive Study of Yellowstone Earthquake, 1959-1960

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File Unit	Title
063.01	Earthquake Form Reports, 1959-1962
063.02	Monthly Progress Report to Park Superintendent on Emergency Interpretive Study of Yellowstone Earthquake, 1959-1960
063.03	Geological Features and Studies - Seismology Correspondence, Memos, Articles, 1960-1961
063.04	Earthquake Fissures on National Park Mountain Report, October 1961

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063.05	Geological Features and Studies - Seismology Correspondence, Primarily re: Seismograph, 1963-1964
063.06	Seismograph Correspondence and Data, circa 1964
063.07	Geological Features and Studies - Seismology (Earthquakes) Correspondence, 1965
063.08	United States Geological Survey (USGS) Seismograph Correspondence, Memos, Maps, circa 1965-1976
063.09	Correspondence - John Good, 1966
063.10	Seismograph Stations and Network Correspondence and Memos, circa 1969-1970
[FF OVZ]	Yellowstone Seismicity Maps 1973-1981 and 1972-1995, 1981 and undated [request FF 15, F10]
063.11	Old Faithful Seismic Records and Correspondence, 1973, 1990
063.12	Geological Features and Studies - Seismograph and Energy Probe Correspondence, 1974
063.13	Yellowstone Seismicity Correspondence, Data, Maps, Reports, Articles, circa 1974-1977 (intermittent)
063.14	Old Faithful Earthquake Correspondence and Memos, 1975

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File Unit	Title
064.01	Earthquake June 30, 1975 Photographs, 1975 (?)
064.02	Earthquakes - Felt Reports, circa 1975-1992
064.03	Felt Tremors, Seismograph, Monitoring, and Related Correspondence, Memos, Reports (1 of 2), circa 1975-1995
064.04	Felt Tremors, Seismograph, Monitoring, and Related Correspondence, Memos, Reports (2 of 2), circa 1975-1995
064.05	Tremors Correspondence, Data, Observations, 1976-1978, 1980
064.06	Smith, Bob Lecture on Research in Yellowstone (Cassette and Transcript), February 14, 1977
064.07	Earthquake Data File, circa 1977 (?)
064.08	Chronological Summary of the Felt Tremors in YNP During 1978, circa 1978 (?)
064.09	Old Faithful Earthquake Correspondence and Data, 1978
064.10	Felt Tremors. Seismograph, Monitoring, and Related Correspondence, Memos, Reports, 1978-1989
064.11	Volcanology Correspondence re: Filming and Magma Temperatures, 1978, 1980
064.12	The Yellowstone Park Earthquake of June 30, 1975 by A.M. Pitt, Craig S. Weaver, and William Spence, circa 1979
064.13	Article - Volcanic Reservoir Is Found In West by Walter Sullivan for The New York Times, January 1980
064.14	Memorandum - Proposed Seismic Studies, Island Park and Yellowstone National Park, 1980
064.15	Earthquake Catalog in the YNP - Hebgen Lake Region for the Years 1973 -1981 by Mitch Pitt, Maps, Data, 1982
064.16	Volcanology - Volcano Hazard Articles, Walter Ackerman Meeting Scheduling, 1982

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05	Seismology and Volcanology, 1920-2016 (cont'd)

Box 65

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065.01	Geological Features and Studies - Seismology (Earthquakes) Correspondence, 1983
065.02	Seismic Monitoring Program - Correspondence, 1983
065.03	Volcanology - Research Proposals, Correspondence, 1983
065.04	Borah Peak, Idaho Earthquake and Hydrothermal Changes, 1983
065.05	Geological Features and Studies - Seismology Correspondence and Memos, 1984-1985
065.06	Volcanology - Correspondence, Memos, 1984-1987
065.07	Re-Arrangement of Grand Group of the Upper Geyser Basin Report, 1985
065.08	Telluric Traverses Related Data and Articles, circa 1985-1991 and undated
065.09	Geological Features and Studies - Seismology Correspondence, Memos, and Earthquake Data by Robert Smith, 1986
065.10	McMinn Bench Slump Survey and Correspondence, 1986, 1988
065.11	Geological Features and Studies - Seismology Correspondence, 1987
065.12	Seismicity of Yellowstone Region 1973 -1988 Map, Preliminary Data, undated (1988?)
065.13	University of Utah Seismic Station Correspondence, 1988-1993
065.14	Earthquake Catalog 1988, June 1989
065.15	Seismograph Stations and GPS Network Correspondence, Memos, Maps, and Proposal, circa 1989-1992

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File Unit	Title
066	[OVERSIZE] Seismograph Records, 1987, 1989, 1994-1997

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File Unit	Title
067.01	Telluric Data from Mammoth - LaDuke Corridor and Draft Location Map from Donald B. Hoover, 1990
067.02	Unanalyzed Yellowstone Lake Seismograph Station Data, 1990
067.03	Correspondence - re: Request by the University of Utah for Permission to Conduct Research on Crustal Deformation in Yellowstone National Park 1991 and Progress Report by Robert Smith and Charles M. Meertens, 1991
067.04	Earthquake Catalog for YNP Region for 1990 by William Hardman, December 1991
067.05	GPS-Precision Gravity Campaign and Survey Benchmark Descriptions, Planning Documents, Observation Logs (Crustal Deformation), 1991
067.06	Proposal to Operate and Upgrade the Yellowstone Seismic Network, 1991
067.07	Yellowstone Seismicity Maps, Data, Letter, 1991
067.08	Felt Tremors, Seismograph, and Related Correspondence, Reports, Memos, 1991-1998
067.09	The Yellowstone Hotspot: Topography, Geophysical and Geological Signature, and Space -Time Evolution - Robert B. Smith, 1992
067.10	List of Yellowstone Earthquakes, 1994
067.11	Operation and Development of an Earthquake Information System at Yellowstone Proposal, 1994
067.12	Earthquake Catalog for 1992 -1994, February 1996
067.13	Old Faithful Visitor Center Seismograph Station Standard Operating Procedure and Seismo Clock Issues, 1997 and undated

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File Unit	Title
067.14	Survey - Preliminary Results from Bathymetric and Seismic Reflection: Surveys of West Thumb, Yellowstone Lake YNP, 2000

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File Unit	Title
068.01	Volcanology - Explanation of Yellowstone Hot Spots for the Canyon Visitor Center Correspondence, September 2002
068.02	Seismicity Summary, August 2003
068.03	Modification and Installation of University of Utah GPS at Old Faithful and Norris and Seismic Station Upgrade at Norris Junction Correspondence, 2003
068.04	Seismic Network and Sites Maps, Project Proposals, Maps, and University of Utah Monitoring, 2003-2005
068.05	Yellowstone Seismic Upgrade, Volcano and Earthquake Monitoring Plan Draft, Correspondence, 2004-2006
068.06	Sour Creek Dome, 2006
068.07	Budget and Statement of Work - Norris Deformation and Seismograph Upgrades Seismology, 2007
068.08	Boreholes - Canyon Borehole B206: Index, Emails, Summary Table, Install Plots, Temperature Logs, Other Files, Geophysical Logs, Data, 2008
068.09	Boreholes - Grant: Index, Temperature Logs, Notes, 2008
068.10	Boreholes - Grant 2: Index, Emails, Summary Table, Temperature Logs (1 of 3), 2008
068.11	Boreholes - Grant 2: Temperature Logs (2 of 3), 2008
068.12	Boreholes - Grant 2: Other Files, Geophysical Logs, Data (3 of 3), 2008

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File Unit	Title
069.01	Boreholes - Lake Borehole B208: Index, Emails, Summary Table, Install Plots, Temperature Logs, Other Files, Notes, Geophysical Logs, Data, 2008
069.02	Boreholes - Madison Borehole B207: Index, Emails, Install Plots, Temperature Logs, Other Files, Notes, Geophysical Logs, Data, 2008
069.03	Boreholes - Norris Borehole B205: Index, Emails, Summary Table, Temperature Logs, Other Files, Notes, Geophysical Logs, Data, 2008
069.04	Boreholes - Panther Creek B945 Index, Corresp., Temperature Logs, and Graphs, 2008
069.05	Boreholes - Sample Processing Log Book (1 of 2), 2008

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File Unit	Title
070.01	Boreholes - Sample Processing Log Book (2 of 2), 2008
070.02	Volcanology - Yellowstone Volcano Observatory Corresp., Articles, Reports, 2009
070.03	Protocols for Geologic Hazards Response by the Yellowstone Volcano Observatory, 2010
070.04	Boreholes - Logbook Pages by Cheryl Jaworowski, 2012, 2014
070.05	Boreholes - Cuttings Analysis and Descriptions by Allan Fraser, 2013

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05	Seismology and Volcanology, 1920-2016 (cont'd)

Box 70 (cont'd)

File Unit	Title
070.06	Boreholes - Cuttings Analysis and Descriptions by Annette Hein, 2013
070.07	Boreholes - Cuttings Analysis and Descriptions by Lewis Hein, 2013
070.08	Boreholes – Logbook Pages 2013 January
070.09	Boreholes - Logbook Pages by Adam K. Johnson, 2013 January
070.10	Boreholes - Logbook Observations by Jason Whitmire and Adam K. Johnson, 2013
070.11	Boreholes - Logbook of Observations by Evan Soderberg, 2013
070.12	Seismic Map - 2014 Earthquake Swarm, 2014
070.13	Boreholes- Cataloging and Inventory Project Correspondence between Jacob Thacker and Cheryl Jaworowski, 2016
070.14	Bob Smith - Earthquake Seminar, undated (?)
070.15	“Local Earthquakes Expected in Yellowstone Tonight” Draft by Roderick Hutchinson, undated
070.16	The Borah Peak Earthquake: Seismicity, Faulting Kinematics, and Tectonic Mechanism, undated

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071	[Left Empty for Future Use]
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074.01	Airborne Thermal Infrared Reconnaissance Targets Lists and Maps, 2009
074.02	Anthropogenic Damage to the Main Terrace, Mammoth Hot Springs Report, August 2012
074.03	An Approach to Obtain Ground Surface Heat Flux Paper Draft, undated
074.04	Artist Point Site Development, 2002
074.05	ATLAS Images Correspondence, 2004
074.06	Beryl Springs - Maps, 1880-2000 (intermittent)
074.07	Beryl Springs - Bridge Correspondence, Diagrams, Photographs, GPR Study, 1920-2000
074.08	Beryl Springs - Bridge and Road Repair Correspondence, Reports, Photographs, 1950-1960, 2007
074.09	Beryl Springs - Memos and Correspondence from Robert Fournier, 1960-1990
074.10	Beryl Springs - Area Geology Overview Report and Bridge Management Reports, 2000s
074.11	Beryl Springs - Temperatures, 2002
074.12	Beryl Springs - Hank Heasler Notebook, 2002-2007
074.13	Beryl Springs - Bridge Federal Highways Correspondence, 2003

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Box 74 (cont'd)**File Unit Title**

074.14 Beryl Springs - Temperature Logs, 2003
 074.15 Beryl Springs - Overflow Pipe Notes and DI-1 Forms, 2003-2009 (intermittent)
 074.16 Beryl Springs - FLIR Infrared, 2005
 074.17 Beryl Springs - Correspondence, 2007

Box 75**File Unit Title**

075.01 Beryl Springs - Bridge Repair Correspondence Data, Photographs, 2009
 075.02 Bioprospecting - Administrative Record Index for Edmonds Institute et. al. Vs. Bruce Babbit, undated
 075.03 Bioprospecting - I. 1. A.B.C. Yellowstone Research Permitting Policy, 1994-1996
 075.04 Bioprospecting - I. 2. A. B. C. Process for Reviewing Research Permits, 1985-1992
 075.05 Bioprospecting - I. 2. C. Resource Activity Permit Specific Collecting Guidelines, 1986
 075.06 Bioprospecting - I. 3. A. B. C. Mathur Permit Documents, 1992-1998
 075.07 Bioprospecting - I. 4. Signature Authority for Permits 36 CFR 1.6 and 2.5, circa 1990
 075.08 Bioprospecting - I. 5. Procedure for Establishing Research Priorities Draft, 1995
 075.09 Bioprospecting - I. 6. Yellowstone Resource Council Agenda, 1995
 075.10 Bioprospecting - I. 7. Yellowstone Resource Council Formation, Oct 1993
 075.11 Bioprospecting - I. 8. Examples: Scientific Collection Permits, circa 1898-1993 (intermittent)
 075.12 Bioprospecting - I. 9. YNP/RMP (empty), undated
 075.13 Bioprospecting - I. 10. Permits (Investigator's Annual Reports YCR), 1995
 075.14 Bioprospecting - I. 11. Permits (Investigator's Annual Reports YCR), 1998
 075.15 Bioprospecting - I. 12. Permits, 1997
 075.16 Bioprospecting - I. 13. Permits, 1998
 075.17 Bioprospecting - I. 14. Permits, 1999
 075.18 Bioprospecting - I. 15. Guidelines/Considerations of Human Impacts on Microorganisms, 1992-1995
 075.19 Bioprospecting - I. 16. Request for Investigator's Annual Report - Example Letter Sent Annually to all Researchers, 1998
 075.20 Bioprospecting - I. 17. Annual Summary, Investigator's Annual Reports Example, 1995
 075.21 Bioprospecting - I. 18. Annual Report of the Yellowstone Center for Resources (YCR), 1997
 075.22 Bioprospecting - I. 19. Thermophilic Microorganism Survey, 1997
 075.23 Bioprospecting - I. 20. Summary: Rules and Regulations Concerning Research Permits in National Parks Draft, December 1994

Box 76**File Unit Title**

076.01 Bioprospecting - II. I. K (1-5) Missing, Delta and Pine Land Company Press Release, 1988
 076.02 Bioprospecting - Part II. A. Cooperative Agreement with World Foundation for Environment and Development (WFED), circa 1997-1999

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Box 76 (cont'd)**File Unit Title**

- 076.03 Bioprospecting - Part II. B. Cooperative Agreement with WFED Task Agreement 2, 1997-1999
- 076.04 Bioprospecting - Part II. C. Cooperative Agreement with WFED Task Agreement 3, 1997
- 076.05 Bioprospecting - Part II. D. Cooperative Agreement with WFED Task Agreement 4, 1997-1998
- 076.06 Bioprospecting - Part II. E. Cooperative Agreement with WFED Task Agreement 5, 1998
- 076.07 Bioprospecting - Part II. F-J. Cooperative Agreement with WFED Task Agreements 610, 1998-1999
- 076.08 Bioprospecting - Part II. 1. K. Not Included in Record, WFED Video Project Correspondence, 1998-1999
- 076.09 Bioprospecting - Part II. 1. L. Costa Rica Workshop Correspondence, Memos, Reports, Summaries, 1995-1996
- 076.10 Bioprospecting - Part II. 1. M. Costa Rica Workshop Program, Correspondence, Transcripts, 1997
- 076.11 Bioprospecting - Part II. 1. N. Documents Relating to the Administration of NGO Cooperative Agreements, 1980-1995 (intermittent)
- 076.12 Bioprospecting - Part II. 1. O. Cornell University Collaboration Proposal (Declined), 1995
- 076.13 Bioprospecting - Part II. 2. A. Models Developed by NPS/YNP Memos and Cooperative Research and Development Agreement (CRADA) Draft, 1995-1996
- 076.14 Bioprospecting - Part II. 2. B. Early NPS/WFED Prototype CRADA, 1995
- 076.15 Bioprospecting - Part II. 2. C. Models Developed by Others, 1995-1996
- 076.16 Bioprospecting - Part II. 2. D. Early Recombinant BioCatalysis Incorporated CRADA Model Draft, 1996
- 076.17 Bioprospecting - Part II. 2. E. First Composite Draft CRADA NPS/WFED, 1996
- 076.18 Bioprospecting - Part II. 2. F-G. Composite Draft CRADA Iterations, November 1996

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- 077.01 Bioprospecting - Part II. 2. H-J. Drafts of Recombinant Biocatalysis Inc. CRADA, 1996 -1997
- 077.02 Bioprospecting - Part II. 2. L. Released Diversa CRADA, circa 1997. 2003
- 077.03 Bioprospecting - Part II. 2. M. Diversa Amended CRADA Draft, 1998
- 077.04 Bioprospecting - Part II. 2. N. Attorney-Client Communications, YNP and Debra Hecox, 1997
- 077.05 Bioprospecting - Part II. 2. O Boilerplate CRADA Language, 1998
- 077.06 Bioprospecting - Part II. 2. P. 1-6. Model Development Correspondence (1 of 2), 1993-1998
- 077.07 Bioprospecting - Part II. 2. P. 1-6. Model Development Correspondence (2 of 2), 1993-1998
- 077.08 Bioprospecting - Part II. 2. Q. 1, 3-8. Diversa/YNP Correspondence, 1992-1998

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Box 77 (cont'd)**File Unit Title**

077.09 Bioprospecting - Part II. 2. Q. 9. Diversa Corporate Publications, circa 1994-1997
 077.10 Bioprospecting - Part II. 2. Q. 10. Diversa/YNP CRADA Review Letters, 1996

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078.01 Bioprospecting - Part II. 2. R. Theoretical Bioprospectors, 1991-1996
 078.02 Bioprospecting - Part II. 2. S. 1-20. Possible/Probable Bioprospectors in YNP (1 of 2), 1996-1999
 078.03 Bioprospecting - Part II. 2. S. 1-20. Possible/Probable Bioprospectors in YNP (2 of 2), 1996-1999
 078.04 Bioprospecting - Part II. 2. S. 21-32. Possible/Probable Bioprospectors, 1996-1999
 078.05 Bioprospecting - Part II. 2. S. 3. 3. Miscellaneous Bioprospecting Contracts and Correspondence, 1993, 1996-1997
 078.06 Bioprospecting - Part II. 2. T. 1. Search for the Origins of TAQ Polymerase Research Memos and Correspondence, circa 1993-1996
 078.07 Bioprospecting - Part II. 2. U. Third Party Use of YNP Research Specimens Correspondence and Memos, 1996-1998
 078.08 Bioprospecting - Part II. 2. Z. Kick-Off Meeting Agenda, Memos, and Remarks, 1994
 078.09 Bioprospecting - Part II. 2. X. NPS Director Roger G. Kennedy Correspondence, 1996
 078.10 Bioprospecting - Part II. 2. Y. Management of Royalties Letter, May 1998
 078.11 Bioprospecting - Part III. A. 36 CFR 1.6, 2.1, 2.5 with Notes and Correspondence, 1990, 1993
 078.12 Bioprospecting - Part III. 1. C. Public Law 96-517 (1980) with Notes, 1996
 078.13 Bioprospecting - Part III. 1. F. Public Law 91-383, Special Directive 78-2, Email Noting Irrelevance to Biodiversity Issue, 1998
 078.14 Bioprospecting - Part III. 1. G. Legislation Summaries and Book of CRADAs, 1996
 078.15 Bioprospecting - Part III. 2. B. 15 CFR 3701-3901 and Letter from Debra Hecox, 1996
 078.16 Bioprospecting - Part III. 2. C. 35 CFR 202-210 and Correspondence, 1996
 078.17 Bioprospecting - Part III. 2. D. 15 CFR 3613-3713 with Correspondence, 1996

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079.01 Bioprospecting - Part III. 2. E. 15 CFR 3710a and Letter from Debra Hecox, 1996
 079.02 Bioprospecting - Part III. 3. A. Strategic Process Document, Drafts, Correspondence, 1998-1999
 079.03 Bioprospecting - Part III. 3. B. Legislative/Executive Briefing Statements, 1997-1999
 079.04 Bioprospecting - Part III. 3. C. DOI Technology Transfer Committee Correspondence, Memos, Handbook, 1996-1997
 079.05 Bioprospecting - Part III. 3. D. Congressional Dialogue Correspondence, Memos, CRADA Questions, 1998
 079.06 Bioprospecting - Part III. 3. E. DOI Science Board Meeting Correspondence, 1997
 079.07 Bioprospecting - Part III. 3. F. DOI Directives Memos, 1998

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079.08 Bioprospecting - Part III. 3. G. DOI Correspondence and Technology Transfer Activities Write-Up, 1997-1998

079.09 Bioprospecting - Part III. 3. H. NPS Policy and Research Program Design and Management Guidance, undated

079.10 Bioprospecting - Part III. 3. I. Coordination of White House (?) Office of Science and Technology Policy Message Regarding Biodiversity, 1997

079.11 Bioprospecting - Part III. 3. J. FOIA Responses (1 of 2), 1996-1999

079.12 Bioprospecting - Part III. 3. J. FOIA Responses (2 of 2), 1996-1999

079.13 Bioprospecting - Part III. 3. K. Declarations - Edmunds Institute vs. NPS Legal Materials and John Varley Declarations, 1998, 2006

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080.01 Bioprospecting - Part III. 3. K. Declarations - Edmunds Institute vs. NPS Legal Materials and John Varley Declarations, 1988-1999

080.02 Bioprospecting - Part III. 3. K. Research Case Law (Bison) Photocopies, 1991-1993

080.03 Bioprospecting - Part III. 3. K. (Extra FOIA Package) Correspondence, Memos, Miscellaneous Documents (1 of 2), 1996-1997

080.04 Bioprospecting - Part III. 3. K. (Extra FOIA Package) Correspondence, Memos, Miscellaneous Documents (2 of 2), 1996-1997

080.05 Bioprospecting - Part III. 3. L. Edmonds Institute Press Releases and Article on Patents, 1994, 1997

080.06 Bioprospecting - Part IV. 1. Public Involvement Overview, 1997, 1999

080.07 Bioprospecting - Part IV. 2. A. Newspaper Articles (1 of 2), circa 1994-1999

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081.01 Bioprospecting - Part IV. 2. A. Newspaper Articles (2 of 2), circa 1994-1999

081.02 Bioprospecting - Part IV. 2. C. Public Involvement/TV/Radio Memorandums of Call Photocopies, 1995-1998

081.03 Bioprospecting - Part IV. 2. D. Correspondence, 1993-1998

081.04 Bioprospecting - Part IV. 2. E. Public-At-Large/Telephone Memorandums of Call Photocopies, 1996-1998

081.05 Bioprospecting - Part IV. 2. F. Public Presentations/Talks/Speeches Agendas, Memos, Drafts, 1994-1998

081.06 Bioprospecting - Part IV. 2. G. Hand-Outs to the Public, 1996-1999

081.07 Bioprospecting - Part IV. 2. H. Press Releases and FAQs, 1997-1999

081.08 Bioprospecting - Part IV. 2. I. Press/Media Hand-Out, Microbe Media Packet, 1994-1995

081.09 Bioprospecting - Part IV. 3. A. Magazine and Journal Articles, circa 1992-1998

081.10 Bioprospecting - Part IV. 3. B. Correspondence, 1994-1999

081.11 Bioprospecting - Part IV. 3. D. A. Old Faithful Conference on Biodiversity, Ecology, and Evolution of Thermophiles in YNP, 1995

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081.12	Bioprospecting - Part IV. 4. A. Correspondence, Memos, Articles, circa 1994-1998
081.13	Bioprospecting - Part IV. 5. C. Correspondence, Telephone, 1992-1998
081.14	Bioprospecting - Part IV. 5. D. Superintendent's Annual Reports Excerpts, 1994-1997
081.15	Bioprospecting - Part IV. 5. E. YCR Annual Reports Excerpts, 1994-1995, 1997

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082.01	Bioprospecting - Presentations and Talks, circa 1994-1997
082.02	Bioprospecting - Commercial Use of Microorganisms Draft, Memorandum of Understanding (MOU), Draft Contract, 1995
082.03	Bioprospecting - Conservation and Sustainable Use of Thermophilic Microbial Biodiversity Project Overview, 1996
082.04	Bioprospecting - Letter from Michael Finley, Pilot Special Use Permit, 1996
082.05	Bioprospecting - Correspondence, 1996-1997
082.06	Bioprospecting - WFED Film Project, 1996-1997
082.07	Bioprospecting - CRADA Model and Correspondence, 1996-1998
082.08	Bioprospecting - Edmunds vs. Babbit Correspondence and Lab Photographs, circa 1996 -1998
082.09	Bioprospecting - Mike Bader, Executive Director Alliance for the Wild Rockies Letter and Articles, 1997
082.10	Bioprospecting - Presentation Handouts, 1997
082.11	Bioprospecting - Thermophiles Conservation Project and Bioprospecting Planning Correspondence, Memos, 1997
082.12	Bioprospecting - FOIA Requests, 1997, 2001
082.13	Bioprospecting - Promega Agreement Correspondence and the Yellowstone Thermophiles Project, 1997-1999
082.14	Bioprospecting - Aluminum Eating Microbe Article and Comment by Ann (Deutch?), 1998
082.15	Bioprospecting - Case Study of a Bioprospector, 1998
082.16	Bioprospecting - W. Alton Jones Foundation Correspondence, 1998
082.17	Bioprospecting - Edmunds v. Babbit Order and Final Judgement and Related Correspondence and Articles, 1998, 2000 (bulk 2000)
082.18	Bioprospecting - Bibliographies, 1998-2001

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083.01	Bioprospecting - Royalties and Royalty Management, 1998, 2001
083.02	Bioprospecting - Biotechnology and CRADA-Related Inter-Agency Meeting, 1999
083.03	Bioprospecting - Class Letters to Congressman Rick Hill, 1999
083.04	Bioprospecting - Conference Calls Notes, 1999-2000
083.05	Bioprospecting - Diversa and Articles in La Jornada (Mexican Newspaper), 1999
083.06	Bioprospecting - Edmunds v. Babbit John Varley Declaration/Affadavit, 1999
083.07	Bioprospecting - Edmunds v. Babbit Legal Documents and Correspondence, 1999

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Box 83 (cont'd)**File Unit Title**

083.08 Bioprospecting - Edmunds v. Babbit Opposition to Summary Judgement Motion Annotated, 1999

083.09 Bioprospecting - INEEL (now Idaho National Laboratory) Possible CRADA Correspondence, 1999

083.10 Bioprospecting - Wendy Davis Hoover Permit Correspondence, 1999

083.11 Bioprospecting - Patents on Yellowstone Materials, circa 1999

083.12 Bioprospecting - YNP as a Federal Laboratory Write-Up and Bibliography, circa 1999

083.13 Bioprospecting - Public Involvement, 1999-2000

083.14 Bioprospecting - EIS Budget, Proposed Action, and Purpose and Need, 1999-2000

083.15 Bioprospecting - EIS Work Plan Timeline, circa 1999-2000

083.16 Bioprospecting - WFED Contracts, circa 1999-2000

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084.01 Bioprospecting - Articles and Correspondence Regarding Thermophiles and Research Requests, 1999-2001

084.02 Bioprospecting - Final Narrative and Financial Project Report by WFED, March 2000

084.03 Bioprospecting - New England Biolabs Letter, September 2000

084.04 Bioprospecting - Draft Memorandum NPS/YNP Discussions with the ATCC Concerning Management and Distribution of Biological Materials Obtained from NPS Units and Related Issues, 2000

084.05 Bioprospecting - EIS and Deliberative Draft Correspondence, Notes, 2000

084.06 Bioprospecting - Federal Sample and Culture Collection Strategy Drafts and Correspondence, 2000

084.07 Bioprospecting - Homegrown Material Transfer Agreement (MTA) Draft, Correspondence, 2000

084.08 Bioprospecting - John Varley's Op-Ed for Billings Gazette and Draft, 2000

084.09 Bioprospecting - Mushroom Spring and Octopus Pool Correspondence and Photos, 2000

084.10 Bioprospecting - Newsletter Revision Correspondence, 2000

084.11 Bioprospecting - Rose Polymerase Correspondence and Articles, 2000

084.12 Bioprospecting - WFED Correspondence, Articles, Contracts, 2000-2002

084.13 Bioprospecting - Xylanase from Acidothermus Cellulolyticus, 2000-2001

084.14 Bioprospecting - Environmental Assessment Budget, Comments, Notice of Intent, Drafts, 2000-2002

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085.01 Bioprospecting - Patent Procedure, 2001

085.02 Bioprospecting - Sierra Club Article on Genetic Engineering with Annotations by Sue Mills, 2001

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Box 85 (cont'd)**File Unit Title**

085.03 Bioprospecting - Tribal Consultation Background Information, Draft Language, Correspondence, 2001
 085.04 Bioprospecting - Benefits-Sharing Meeting Materials, 2002
 085.05 Bioprospecting - Biological Material Transfer, INEEL Vicki Thompsen and John Snyder, 2004
 085.06 Bridger-Teton Interagency Agreement, 2015
 085.07 Carbon Dioxide at the Safety Services Office at Mammoth Hot Springs Draft, June 2008
 085.08 Chambers, Bob Monthly Reports, February-June 1994

Box 86**File Unit Title**

086.01 Change Detection of Yellowstone's Radiative Thermal Flux Using Remote Sensing Imagery Project Study Plan and Correspondence, circa 2005
 086.02 Change Detection of Yellowstone's Radiative Thermal Flux Using Remote Sensing Imagery Project Reports and Admin Correspondence, circa 2006-2010
 086.03 Change Detection of Yellowstone's Radiative Thermal Flux Using Remote Sensing Imagery Project Weekly Reports and Correspondence, 2007-2009
 086.04 Change Detection of Yellowstone's Radiative Thermal Flux Using Remote Sensing Imagery Project Correspondence, 2008
 086.05 Change Detection of Yellowstone's Radiative Thermal Flux Using Remote Sensing Imagery Project Reports and Correspondence, circa 2009-2010
 086.06 Chocolate Pots Filming Permit Correspondence, 2003
 086.07 Clematis Creek Project Review Form, 2000s (?)
 086.08 Complaints and Reprimands, circa 1978, 1990-1995
 086.09 Correspondence Drafts by Roderick (Rick) Hutchinson, General Maintenance Issues and Some Geyser Activity, 1973
 086.10 Correspondence, Reports, Memos, circa 1928-1948
 086.11 Correspondence, Reports, Memos, 1931-1968 (intermittent)
 086.12 Correspondence, Reports, Memos, circa 1937-1965 (intermittent)
 086.13 Correspondence, Reports, Memos, circa 1944-1965
 086.14 Correspondence, Photographs, circa 1948, 2004-2006, 2012

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087.01 Correspondence, Memos, and Reports, 1952-1960
 087.02 Correspondence, Memos, and Reports, circa 1954-1956
 087.03 Correspondence, 1967-1994, bulk 1967-1968
 087.04 Correspondence and Memos, 1979-1989
 087.05 Correspondence, 1984-2000
 087.06 Correspondence, 1994, 1995
 087.07 Correspondence, 2013-2014

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087.08 Correspondence Regarding Proposals for Funding Geothermal Research, circa 1980-1982
 087.09 Cost and Description of Work for 1991 Water Year, August 1990
 087.10 Cooperative, Contract, and Task Agreements, 2005
 087.11 Cooperative, Contract, and Task Agreements, 2006
 087.12 Cooperative, Contract, and Task Agreements, 2007

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088.01 Cooperative, Contract, and Task Agreements, 2009
 088.02 Cooperative, Contract, and Task Agreements, 2010
 088.03 Cooperative, Contract, and Task Agreements, 2011
 088.04 Cooperative, Contract, and Task Agreements, 2012
 088.05 Cooperative, Contract, and Task Agreements, 2013
 088.06 Cooperative, Contract, and Task Agreements, 2013-2015
 088.07 Cooperative, Contract, and Task Agreements, 2014
 088.08 Crozaz, Ghislaine Article and Letter, 1985
 088.09 Dzurisin, Dan, 1986 and undated
 088.10 Earth Science Study - NPS, USGS, NASA Correspondence and Project Proposals, 1964 -1965
 088.11 East Entrance Road Construction Memo and Boiling River Management Analysis, 1992 and undated
 088.12 Elevations of the U.S. Coast and Geodetic Survey Monuments in YNP and Vicinity, circa 1953
 088.13 Energy Research Correspondence, Notes, and Memos, 1982
 088.14 Estimate of Temporal and Spatial Variability of Heat Budget in Geothermal Systems in Yellowstone Caldera Research Proposal, Ruba Mohamed, 2014
 088.15 Estimation of Geothermal Heat Flux at the Bare Soil Surface in Norris Geyser Basin Paper Draft, 2015
 088.16 Exhibit Mock-Ups, 2003
 088.17 Exhibit Panel Review Correspondence, Notes, Panel Mock-Ups, 2002

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089.01 Field Research Methods Surveys and Maps, circa 1999-2000
 089.02 Field Trip Guide to YNP for Earthscope Plume Tales, 2009
 089.03 Floodplain Assessment, 2003-2004
 089.04 Fluvial Erosion - Map Handouts, circa 2007-2013
 089.05 Fluvial Erosion - Eric Bilderback and Gary Smilie Visit, 2013
 089.06 Fluvial Erosion - Yellowstone Lake Erosion Draft, 2014
 089.07 Framework for Geological Resources Management, Presentation Slides by Paul K. Doss, 2001

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089.08 Fritz, William - Roadside Geology of the Yellowstone Country and Correspondence, 1980, 1984
 089.09 Geochemical Sample Notes, 2008-2012
 089.10 Geology (General) Correspondence, Memos, Reports, circa 1934-1958
 089.11 Geology (General) Correspondence, Memos, Reports, circa 1937-1946 and undated
 089.12 Geology (General) Correspondence, Memos, Reports, 1944-1953

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090.01 Geology General Files Correspondence, Memos, and Reports (Photocopies), circa 1940-1952
 090.02 Geologic Hazards and Management Correspondence, Memos, and Reports, circa 1970-1992 and undated
 090.03 Geologic Reconnaissance of Pebble Creek and Slough Creek Campgrounds, 2004
 090.04 Geologic Reconnaissance of Proposed Construction Sites Near Mammoth, Lake, Fishing Bridge, West Thumb, and Grant Village Report, 1967
 090.05 Geologic Resources Evaluation Scoping Summary, 2005
 090.06 Geologic Resources Program Correspondence, Work Plans, Priorities, circa 2002-2003
 090.07 Geologic Study of the North Entrance Road, 2013
 090.08 Geologic Studies of YNP Imagery Using an Electronic Image Enhancement System USGS Report, 1970
 090.09 Geological Features, Thermal Features, Correspondence, Memos, and Reports, circa 1939-1960
 090.10 Geological Features, Thermal Features, Correspondence, Memos, and Reports, circa 1957-1960
 090.11 Geological Features and Studies Correspondence, 1966
 090.12 Geological Features and Studies - Thermal Features, Geysers, Springs Correspondence, 1966
 090.13 Geological Features and Studies General Correspondence, 1967

Box 91 Title

091 Geological Features and Studies General Correspondence, Memos, and Reports, 1968-1985 (intermittent)

Box 92**File Unit Title**

092.01 Geological Features and Studies Reports and Correspondence, circa 1983-1989
 092.02 Geological Features and Studies: Descriptive and General (Geodetic Surveys) Correspondence, Memos, and Reports, 1954-1956
 092.03 Geological Features and Studies: Descriptive and General (Geodetic Surveys) Correspondence, Memos, and Reports, 1957-1962
 092.04 Geological Features and Studies: Descriptive and General (Geodetic Surveys), 1963-1964

Series Nbr Series Title

06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (cont'd)

Box 92 (cont'd)**File Unit Title**

- 092.05 Geological Features and Studies: Descriptive and General Correspondence, 1965
- 092.06 Geological Features and Studies: Rocks and Minerals Correspondence, 1983
- 092.07 Geological Features and Studies: Thermal Features Correspondence and Memos, 1963-1964
- 092.08 Geological Features and Studies: Thermal Features Correspondence and Memos, 1965
- 092.09 Geological Features and Studies: Water (Ground, Running, Springs, Lakes) Correspondence and Publications, 1963-1964
- 092.10 Geological Investigations in YNP, 1976-1981 by Wayne Hamilton and Drafts, circa 1982
- 092.11 Geological Resource Management Program Development, circa 1997-2000 and undated
- 092.12 Geological Resource Management and Physical Sciences Program Development and Work Plan, circa 1999-2001
- 092.13 Geological Studies Budget Correspondence, 1959-1960
- 092.14 Geophysical Correspondence, 1924, 1927, 1942
- 092.15 Geothermal Activity in the Thermal Basin of YNP Annual Report and Activity Memos, 1975
- 092.16 Geothermal Monitoring Field Work and Physical Results of Research Drilling, 1975, 1992

Box 93**File Unit Title**

- 093.01 Geothermal Monitoring - Plan Drafts, Correspondence, Memos (1 of 2), circa 1983-2001
- 093.02 Geothermal Monitoring - Plan Drafts, Correspondence, Memos (2 of 2), circa 1983-2001
- 093.03 Geothermal Monitoring - Program Plan, Chronology, Correspondence, Briefing Statements, 1997, 2004 (bulk 2004)
- 093.04 Geothermal Monitoring - Volunteer Correspondence from Tim Thompson, 1999
- 093.05 Geothermal Monitoring - Plan Draft and Final, May-September 2001
- 093.06 Geothermal Monitoring - Plan Drafts, Correspondence, and Presentations, circa 2002-2003
- 093.07 Geothermal Monitoring - Plan Budget and Correspondence, 2005
- 093.08 Geothermal Monitoring - Accomplishments, 2009
- 093.09 Geothermal Resources - Correspondence, Clippings, Memos, and Reports, circa 1975-1989

Box 94**File Unit Title**

- 094.01 Geothermal Resources - Research Correspondence, Memos, and Reports (1 of 2), circa 1980-1982
- 094.02 Geothermal Resources - Research Correspondence, Memos, and Reports (2 of 2), circa 1980-1982
- 094.03 Geothermal Resources - Research, Communication Problems Correspondence, 1983-1990

Series Nbr Series Title

06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (cont'd)

Box 94 (cont'd)**File Unit Title**

094.04 Geothermal Resources - Budget Correspondence, Memos, and Reports, 1984-1989, 1992

094.05 Geothermal Resources - Research Correspondence, Memos, and Reports (1 of 2), circa 1990-1999

094.06 Geothermal Resources - Research Correspondence, Memos, and Reports (2 of 2), circa 1990-2000

094.07 Geothermal Resources - Biscuit Basin to Madison Junction Road Reconstruction Correspondence and Proposal, 1993

094.08 Geothermal Resources - Correspondence, William Locke at Montana State University, 1995

094.09 Geothermal Resources - Park Infrastructure Assessments, 2000

094.10 Geothermal Steam Act Amendments, 1988

Box 95**File Unit Title**

095.01 Geysers - General Correspondence Copied from the National Archives in Kansas City, circa 1942-1952

095.02 Good, John Geology Field Notes, 1966-1967

[Digital] Good, John Report on Earth Sciences Seminar Concerning Yellowstone's Needs, 1997

095.03 GPS Coordinates Emails, 2006

095.04 Grand Teton National Park Beaver Creek Source Water Assessment and Other Projects, circa 2004-2007

095.05 Grand Teton National Park Lupine Meadows Housing and Well, circa 2004

095.06 Greater Yellowstone Almanac Drafts, circa 2006

095.07 Ground Control Points (GCP) Landsat, circa 2005

095.08 Hague, Arnold Geology of Yellowstone (unpublished) (1 of 2), undated

095.09 Hague, Arnold Geology of Yellowstone (unpublished) (2 of 2), undated

095.10 Handbook for Environmental Impact Analysis (Director's Order 12), January 2001

Box 96**File Unit Title**

096.01 Heasler, Henry (Hank) Correspondence, 2005

096.02 Heasler, Henry (Hank) Notebook, 2002

096.03 Heasler, Henry (Hank) Notebook, 2003-2006

096.04 Heasler, Henry (Hank) Notebook, 2009-2011

096.05 Heasler, Henry (Hank) Notebook, 2013

096.06 Heat Flow and Change Detection of Thermal Features Using High Resolution Airborne Remote Sensing (Heat Flow) - Proposal and Final Report (Christopher Neale), 2011, 2014

096.07 Heat Flow - Plan and Addendum, 2014

096.08 Heat Flow - Final Report, 2014-2015

096.09 Hutchinson, Roderick (Rick) Correspondence with Alan Mebane, 1975-1976

Series Nbr Series Title

06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (cont'd)

Box 96 (cont'd)**File Unit Title**

096.10 Hutchinson, Roderick (Rick) Notes on Russia Trip for International Symposium on Water-Rock Interaction, Correspondence, and Photograph, 1995
 096.11 Idaho Earth Science Teachers Field Workshop, 2007
 096.12 Integrated Geological Resources Management Plan, 2001

Box 97 Title

97 Internal Geology Reports, 2002-2011
 97 Internal Geology Reports [**Digital Materials**], 2002-2015

Box 98**File Unit Title**

098.01 Internal Geology Reports, 2012
 098.02 Internal Geology Reports, 2014
 098.03 An Interpreter's Guide to Yellowstone National Park [Geology], 1966
 098.04 An Investigation of Resources Utilizing Geological, Geophysical, Hydrochemical, and Geothermal Methods Article, 1982
 098.05 Investigations of Seasonal Variations and Heat Flow (Christopher Neale), 2013-2015
 098.06 Investigator's Annual Reports, circa 1976-1995 (intermittent)
 098.07 Jaworowski, Cheryl Appointment as Agreements Technical Representative, 2010
 098.08 Jennings, Judy Wispwet Correspondence, circa 2005
 098.09 Job Hazard Analysis - Hydrothermal Areas, 2011
 098.10 Landslides - Geologic Hazards Correspondence and Memos, 1986-1988, 1991
 098.11 Landslides - Beryl Spring Field Investigation Reports, 1989
 098.12 Landslides - USGS Hazard Assessment, 1997
 098.13 Landslides - Tower Correspondence and Photos, 2004, 2007
 098.14 Landslides - Mammoth Correspondence and Notes, 2004-2007, 2011, 2014
 098.15 Landslides - West of Slide Lake and North of Mammoth Photos and Letter, 2009
 098.16 LeHardys Rapids Interpretation Draft by Ken Pierce, 1998
 098.17 Lindstrom, Robert - Monthly Reports to YCR Director, 1995-1996
 098.18 Little Dipper (Maji Moto) Hot Water Boat, 1976, 1994
 098.19 Mapping of Thermal Springs and Features in YNP in Upper, Middle, Lower Basins Proposals and Invoices (Christopher Neale), circa 2005-2009
 098.20 Mapping of Thermal Springs and Features in YNP in Upper, Middle, Lower Basins Flight Information (Christopher Neale), circa 2006
 098.21 Mapping of Thermal Springs and Features in YNP in Upper, Middle, Lower Basins Flight Areas, circa 2008-2011

Box 99**File Unit Title**

099.01 Mapping of Thermal Springs and Features in YNP in Upper, Middle, Lower Basins Final Report and Draft (Christopher Neale), 2009
 099.02 Microbiology - American Type Culture Collection Correspondence, Notes, Agreements, 1990, 1995-1998

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06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (cont'd)

Box 99 (cont'd)

File Unit	Title
099.03	Microbiology - Thermophiles Reports and Memos, 1991-1992
099.04	Microbiology - Robert (Bob) Lindstrom Memos and Correspondence, 1991-1997
099.05	Microbiology - Thermophile Organization Correspondence, 1992-1993
099.06	Microbiology - NASA Mars Program and Exobiology Research Article and Memos, 1993-1994, 2000
099.07	Microbiology - Practical Use of Research Specimens, Rules and Regulations for Research Permits, 1994
099.08	Microbiology - Presentation and Draft by Robert Lindstrom, 1994
099.09	Microbiology - Research Projects Lists, 1995-1996, 1998
099.10	Microbiology - Kendall Foundation Correspondence, 1995-1998
099.11	Microbiology - Convention on Biological Diversity, circa 1995-2001
099.12	Microbiology - Correspondence and Materials from Operation Clean Hands, American Society for Microbiology, 1996

Box 100

File Unit	Title
100.01	Microbiology - Thermophile Outreach Meeting Report and Correspondence, 1996
100.02	Microbiology - Yellowstone as a Federal Laboratory, circa 1996
100.03	Microbiology - Cooperative Agreements, 1996-1999
100.04	Microbiology - The Laboratory Named Yellowstone, A Perspective on Microbial Research by Jed Van Dyke, October 1997
100.05	Microbiology - Bioremediation, Radioactive Eating Microbes Correspondence, 1997
100.06	Microbiology - The Institute for Genomic Research Meeting Notes and Correspondence, 1997
100.07	Microbiology - Jed Van Dyke Memos and Progress Reports, WFED, 1997
100.08	Microbiology - New Explorers Project Memos and Correspondence, 1997
100.09	Microbiology - <i>Thermotrix Thiopara</i> and BBC Programme One Correspondence, 1998
100.10	Microbiology - All Taxa Biodiversity Inventory Correspondence, 1999
100.11	Microbiology - Ownership of Organisms Correspondence, 1999
100.12	Microbiology - American Type Culture Collection (ATCC) Correspondence, 1999-2000
100.13	Microbiology - Biological Material Transfer Agreement, 2000
100.14	Microbiology - Thermal Biology Institute Correspondence (Tim McDermott), 2000-2001
100.15	Microbiology - Letter Regarding Yellowstone Lake Spires and Diversa Analysis, July 2001
100.16	Microbiology - Baseline Inventory of Thermophile Biodiversity Project Completion Report and Database Correspondence, 2001
100.17	Microbiology - American Type Culture Collection (ATCC) Procedure Drafts and Comments, circa 2001-2003
100.18	Microbiology - <i>Synechococcus</i> Discovery Response, undated
100.19	Miscellaneous Planning and Management Memos, Diagrams, and Correspondence, 1975-1995 (intermittent) and undated

Series Nbr Series Title

06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (cont'd)

Box 100 (cont'd)**File Unit Title**

100.20 Mohamed, Ruba Correspondence, circa 2012-2013
 100.21 Molecular Ecology Lab Discussion and PCR Training, *Brucella Abortus* Detection Memo, 1996-1997
 100.22 Montana Bureau of Mines and Geology Annual Reports for Controlled Groundwater Area Monitoring and Database, 2012

Box 101**File Unit Title**

101.01 Montana State University Thermal Biology Institute, 1998
 101.02 Neale, Christopher and Geli Hahn Correspondence, 2012-2015
 101.03 Neale, Christopher Geothermal Monitoring and Infrared Flights Correspondence and Article, 2004-2008
 101.04 Neale, Christopher Geothermal Monitoring and Infrared Flights Correspondence and Article, 2009-2011, 2014
 101.05 Neale, Christopher Geothermal Monitoring and Infrared Flights Correspondence, 2012
 101.06 Neale, Christopher Thermal Infrared Areas and Summaries, circa 2013-2014 and undated
 101.07 New Geologic Publications and Articles (Bibliography), 1983, 1994
 101.08 Norris Geyser Basin Parking Area Project Sheets and Planning Documents, undated
 101.09 Norris Hydrothermal Monitoring News Release, 2003
 101.10 Norris Water and Sewer Letter and Memo, 1981
 101.11 North Entrance Road Alternative Route Report and Suggestions, 1967
 101.12 Northeast Entrance Road Significant Landscape Features (Project YELL-I-010.000), Road Features, 1995, 2000
 101.13 Old Faithful Cabin Repurposing and Dormitory Construction Environmental Assessment, 2012
 101.14 Old Faithful Foundation Investigation of Proposed Visitor Center (photocopy), 1968 and undated

Box 102**File Unit Title**

102.01 Old Faithful Gas Spill, Terracon Drilling and Monitoring, Well Installation, 2002, 2008
 102.02 Old Faithful Historic Pub Temperature and Geothermal Analyses, 2009
 102.03 Old Faithful Inn - Former Laundry Building Soil Temperature and Gas Monitoring by TetraTech and Correspondence, 2009
 102.04 Old Faithful Inn - Area Analyses and Site Visit Reports, 2010-2011
 102.05 Old Faithful Investigation of Shallow Ground Water Movement at the VC, circa 2005
 102.06 Old Faithful Visitor Center Report Draft and Data, 2005
 102.07 Old Faithful Laurel Dorm Ground Temperatures and Geothermal Gases Reports, 2010-2011
 102.08 Old Faithful Overpass/Interchange Correspondence and Report, 2008, 2011
 102.09 Old Faithful Renovations Correspondence and Concept Plans, 1950-2013 (intermittent)
 102.10 Old Faithful Science Panel Agreements and Correspondence, 2012-2013

Series Nbr Series Title

06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (**cont'd**)

Box 102 (cont'd)**File Unit Title**

102.11 Old Faithful Sewer Line Assessments, Reports, Correspondence, 2014
 102.11 Old Faithful Temperature Analyses for Proposed Haynes Photo Shop, 2009
 102.12 Old Faithful Terracon Geotechnical Eng. Report for Proposed New VC, 2000
 102.13 Opal Terrace Encroachment, 1995-1996

Box 103**File Unit Title**

103.01 Pebble Creek Survey and Report, 2003-2004
 103.02 Pelican Creek Bridge Drilling Plan Correspondence, 1994
 103.03 Permits and Research Projects, circa 1995-1998
 103.04 Phenomena (General) Report and Memo, 1922-1923
 103.05 Physical Science Coordinator Research Correspondence (Wayne Hamilton), circa 1980-1981
 103.06 Physical Science Research Correspondence, Collection Permit Applications (Primarily External), Memos, and Annual Reports, 1982
 103.07 Physical Science Research Correspondence, Collection Permit Applications (Primarily External), Memos, and Reports (1 of 2), circa 1983
 103.08 Physical Science Research Correspondence, Collection Permit Applications (Primarily External), Memos, and Reports (2 of 2), circa 1983
 103.09 Physical Science Research Correspondence, Reports, Memos, Permit Applications, 1983-1984
 103.10 Physical Science Needs for the Park Correspondence and Reports, 1980, 1997
 103.11 Physical Sciences Laboratory Use Protocol, Correspondence, and Notes, circa 1996-2001

Box 104**File Unit Title**

104.01 Physical Sciences and Geological Resources Management Program Work Plan Development, circa 2001
 104.02 Press Releases/News Releases, 1970-1978
 104.03 Project Management Information System (PMIS) Detail Sheets and Guidance, 2002
 104.04 Proposal for Geologic Mapping and Thermal Studies (USGS), 1959
 104.05 Presentation Materials, circa 2001-2003
 104.06 Press Articles, 2002-2004
 104.07 Project Proposals, circa 2006
 104.08 Radon - Mammoth Testing, circa 2003-2004, 2013
 104.09 Radon - Testing Handouts and Reports, circa 2007, 2012
 104.10 Radon - Kenneth Sims Radiogenic Isotopes and the Yellowstone Hydrothermal System Research, 2010
 104.11 Radon - Testing at Laurel Dormitory, 2010
 104.12 Research Abstracts, Mark Kennedy, circa 1983
 104.13 Research Needs Memo, February 1982
 104.14 Research Permit Correspondence and Maps, 1999

Series Nbr Series Title

06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (**cont'd**)

Box 104 (cont'd)**File Unit Title**

104.15 Research Project Summaries, undated

Box 105

105.01 Research Proposals and Monitoring, circa 1978-2012
 105.02 Research Proposals and Correspondence, 1987-1996 (intermittent)
 105.03 Research Proposals and Correspondence, 1993-1995
 105.04 Resources Management Plan, Geology/Geothermal Section, Monitoring Program Requirement, circa 1983, 1987
 105.05 Remote Sensing and Imaging Spectroscopy Reference Materials, circa 1998-2003
 105.06 River Hyporheic Systems and Stream Flow, circa 2006(?)
 105.07 Roads - Tower Fall Area Correspondence and Photos, 2012
 105.08 Roads - Lamar River Bank Erosion Study, 1993, 2004, 2011
 105.09 Roads - Lamar River and Soda Butte Creek Erosion, 2004
 105.10 Roads - Gardner/Gardiner Canyon Transportation Route Analysis Project Draft, 2008
 105.11 Roads – Landslides and Mudslides on Roads, circa 1999, 2002, 2004
 105.12 Rocky Mountains Cooperative Ecosystem Studies Unit (CESU) Agreement Washington State University, 2010-2014
 105.13 Significant Resource Problems Notes, Correspondence, Operating Requirements Paperwork, circa 1981-1985
 105.14 Smoke and Toxic Gas Inhalation Correspondence and Fact Sheets, 1988, 2004
 105.15 Streams and Infrastructure Correspondence and Reports, circa 2003, 2014

Box 106**File Unit Title**

106.01 Subsurface Geothermal Flows Tracking in North Boundary Area Project Background and Photographs, circa 1989
 106.02 Sump/Standpipe and Rock Bolts Correspondence, 2006-2007
 106.03 Superintendent's Annual Research Report and Investigator's Annual Reports, 1978-1981
 106.04 Talks, 2003-2004
 106.05 Talks, Presentations, and Correspondence, 2008
 106.06 Talks, Presentations, and Correspondence, 2009
 106.07 Talks, Presentations, and Correspondence, 2010
 106.08 Talks, Presentations, and Correspondence, 2011
 106.09 Talks, Presentations, and Correspondence, 2012
 106.10 Technical Oversight Committee Meeting Notes, 2010
 106.11 Thermal Cleaning Operations Reports, 1993-1994, 1997, 2000
 106.12 Thermal Features - Construction Projects and Impact on Geothermal Resources Memo, 1980
 106.13 Thermal Features - Thermal Area Use Meeting Minutes and Correspondence, 2007
 106.14 Thermal Infrared Flights Correspondence and Locations, circa 2002-2003
 106.15 Thermal Mapping Correspondence and Memos, 1982-2000 (intermittent)

Series Nbr **Series Title**
 06 Administrative Materials, 1880-2015 (bulk dates: 1980-2005) (**cont'd**)

Box 107

File Unit	Title
107.01	Thermal Remote Monitoring of Norris Geyser Basin and Associated Geothermal Resources Proposal, Correspondence, Reports, 2008-2010
107.02	Thermophilic Microorganism Survey Correspondence, 1994
107.03	Tiltmeters Array Research Proposal - University of Colorado, 1981
107.04	Topography of Parks, 1940-1944
107.05	Trails Correspondence, 2004, 2012
107.06	Turbid Lake Road Rehabilitation Correspondence, Work Summaries, Maps, Treatment Layout for Pyramid Road, 1994
107.07	U.S. Geological Survey (USGS) - Correspondence and Memos, 1964-1994
107.08	USGS - Correspondence, Donald E. White, 1966-1973, 1975
107.09	USGS - Thermal Research Test Wells Plugging Program Correspondence, 1993
107.10	USGS - Mendenhall Fellowship Application Proposals and Article (R. Greg Vaughn), circa 2007-2009
107.11	USGS - Mendenhall Research Project Proposal, circa 2009
107.12	USGS - Mendenhall Research Project Final Report and Draft (R. Greg Vaughn), circa 2010
107.13	Vaughn, R. Greg Articles and Drafts on Sub-Pixel Thermal Feature Measurement and Resolution, 2009

Box 108

File Unit	Title
108.01	Vaughn, R. Greg Grand Prismatic and Excelsior Temperature, 2009
108.02	Visualization of the Mammoth Hydrothermal System and Controlled Groundwater (LiDAR) Proposal, Correspondence, Reports, circa 2010-2011
108.03	Visualization of the Mammoth Hydrothermal System Proposal, Correspondence, circa 2010-2013
108.04	Washington State University (WSU) - Administrative Emails, circa 2010-2013
108.05	WSU Borehole Geochemistry Correspondence, circa 2009
108.06	WSU Borehole Geochemistry Final Report, March 2014
108.07	Yearly Reports and Work Plans, 2001, 2003-2004
108.08	Yellowstone Association Institute Summer Course, 2002
108.09	Yellowstone Center for Resources (YCR) 2002 Annual Report Drafts, 2000-2001
108.10	Yellowstone Lake Geology Guide for Interpretive Tours, 2001
108.11	Yellowstone Master Plan Final Environmental Statement, 1974
108.12	Yellowstone Physical Science Symposium Agenda, Abstracts, Overhead Projector Slides, 1983
108.13	Yellowstone Resources and Issues Handbook Comments and Changes by Robert Fournier, 2010
108.14	Yellowstone Thermal Incident Coding Sheets [RESTRICTED], 1989-2003

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009)

Box 109 Title

109 Work Notebooks/Logbooks, 2002-2015
 - Primarily Cheryl Jaworowski logbooks documenting meetings, planning, goals, etc...also contains logbooks covering primarily mapping and surveys from seasonal staff including David Shean, Emma Reinhart, Laura Bueter, and Chelsea Feeney.

Box 110**File Unit Title**

110.01 Combined - Geyser Observation Correspondence, 1912-1928
 110.02 Combined - Geysers (General) Correspondence, Memos, and Articles for 1924 Fiscal Year, 1922-1923
 110.03 Combined - Hot Springs, Terraces, Geysers, Etc. Correspondence, Memos, Articles for 1925 Fiscal Year, 1923-1925
 110.04 Combined - Geyser Temperatures, 1924
 110.05 Combined - Geysers and Springs Memos, Articles, Correspondence for 1926 and 1927 Fiscal Years, 1925-1926
 110.06 Combined - Geysers and Hot Springs Correspondence, Reports, Memos for 1928 Fiscal Year, 1927-1928
 110.07 Combined - Geysers and Hot Springs Correspondence, Reports, Memos for 1929 Fiscal Year, 1928-1929
 110.08 Combined - Thermal Phenomena (General) Reports and Correspondence for 1929 Fiscal Year, 1928-1934
 110.09 Combined - Thermal Activity Reports, Correspondence, Memos [1 of 2], 1929-1954
 110.10 Combined - Thermal Activity Reports, Correspondence, Memos [2 of 2], 1929-1954

Box 111 Title

111 Combined - Geyser Observation Cards, from Anemone Geysers to Witches Cauldron [see digital use copy], circa 1930-1939

Box 112**File Unit Title**

112.01 Combined - Geysers and Hot Springs Correspondence, Memos, News Clippings, 1930-1932
 112.02 Combined - Geysers and Hot Springs Correspondence, Reports, and Memos, 1932-1934
 112.03 Combined - Correspondence, Memos, Press Releases, Photographs, circa 1932-1942, 1962
 112.04 Combined - Geysers and Hot Springs Correspondence, Memos, 1934-1935
 112.05 Combined - Story of Yellowstone Geysers by C. Max Bauer and Related Correspondence, 1936-1938
 112.06 Combined - Thermal Phenomena (Geysers and Hot Springs) Correspondence and Reports, 1937-1955
 112.07 Combined - Thermal Phenomena (Geysers and Hot Springs) Correspondence, Memos, and Reports, 1940-1943

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 112 (cont'd)**File Unit Title**

112.08 Combined - Thermal Reports and Observations, Memos, and Correspondence, 1940s-1990s (bulk 1990s)

112.09 Combined - Letter to Edmund .B. Rodgers Concerning Preliminary Report of Study of Geysers by L. C. Graton, 1942

Box 113**File Unit Title**

113.01 Combined - Thermal Phenomena (Geysers and Hot Springs) Memos and Correspondence, 1944-1947

113.02 Combined - Hot Springs Activity in Geyser Basins of the Firehole River and Other Thermal Areas Annual Reports [1 of 3], 1946-1971

113.03 Combined - Hot Springs Activity in Geyser Basins of the Firehole River and Other Thermal Areas Annual Reports [2 of 3], 1946-1971

113.04 Combined - Hot Springs Activity in Geyser Basins of the Firehole River and Other Thermal Areas Annual Reports [3 of 3], 1946-1971

113.05 Combined - Are Yellowstone Geysers Declining in Activity? By George Marler, 1947

113.06 Combined - Thermal Phenomena (Geysers and Hot Springs) Memos and Correspondence, 1948-1951

113.07 Combined - Suggested Thermal Area and Visitor Protection Plans, 1950-1952, 1959

113.08 Combined - Thermal Phenomena (Geysers and Hot Springs) Memos and Correspondence, 1952-1953

Box 114 Title

114 Combined - Geological and Hydrothermal Correspondence and Reports, circa 1953-1993

Box 115 Title

115 Combined - Soundscapes, 1954

Box 116 Title

116 Combined - Soundscapes, 1954

Box 117 Title

117 [LEFT EMPTY FOR FUTURE USE]

Box 118 Title

118 Combined - Slides of Various Thermal Features and Locations including Mammoth, Upper Basin, Lower Basin, Norris, Midway, and Black Sand, 1950s

Box 119 Title

119 [LEFT EMPTY FOR FUTURE USE - SLIDES]

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 120**File Unit Title**

- 120.01 Combined - Activity Summaries, Thermal Clean-Up Records, Memos [bulk Firehole River Area], 1955-1987 (intermittent)
- 120.02 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Death Gulch, 1959
- 120.03 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, East of Hebgen, 1959
- 120.04 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Grizzly Lake, 1959
- 120.05 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Hayden Valley, 1959
- 120.06 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Heart Lake, 1959
- 120.07 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Lewis Lake, 1959
- 120.08 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Madison River, 1959
- 120.09 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Mirror Plateau, 1959
- 120.10 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Mt. Holmes, 1959
- 120.11 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, North at Norris, 1959
- 120.12 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Pelican Creek, 1959
- 120.13 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Twin Buttes, 1959
- 120.14 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Washburn, 1959
- 120.15 Combined - 1959 Earthquake (Hebgen) Impacts and Photographs, Yellowstone Canyon, 1959

Box 121**File Unit Title**

- 121.01 Combined - Weekly, Monthly, and Summary Reports of Earthquake Study on Thermal Features, 1959
- 121.02 Combined- Death Gulch Report by Richard Frisbee and Gas Analysis Correspondence, 1959, 1961-1964
- 121.03 Combined - Earthquake Effects on Thermal Features Summary of Research Progress and Press Release, circa 1959 (?)
- 121.04 Combined - Photographs for Biscuit Basin and Fountain Paint Pots Exhibit Panels and Unused Photographs, circa 1959
- 121.05 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1960 Season by George Marler, 1960
- 121.06 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1961 Season by George Marler, 1961
- 121.07 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1962 Season by George Marler, 1962
- 121.08 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1964 Season by George Marler, 1964
- 121.09 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1967 Season by George Marler, 1967
- 121.10 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1968 Season by George Marler, 1968

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 121 (cont'd)**File Unit Title**

- 121.11 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1969 Season by George Marler, 1969
- 121.12 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1970 Season by George Marler, 1970
- 121.13 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1971 Season by George Marler, 1971
- 121.14 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1972 Season by Roderick Hutchinson, 1972
- 121.15 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1973 Season by Roderick Hutchinson, 1973
- 121.16 Combined - Hot Spring Activity in the Geyser Basins of the Firehole River - 1974 Season by Roderick Hutchinson, 1974
- 121.17 Combined - Thermal Correspondence, Memos, and Literary Research, 1960s-1970s

Box 122**File Unit Title**

- 122.01 Combined - Correspondence Regarding Naegleria, Natural History Information OneSheets, 1960-1989 (intermittent) and undated
- 122.02 Combined - Activity Reports, Memos, Correspondence, and Photographs of Steamboat, 1961-1962
- 122.03 Combined - Pumping Experiment at Emerald Pool (Black Sand Basin) Memo, 1962
- 122.04 Combined - Good, John, Gerald Richmond, Ken Pierce, H.A. Waldrop, and Dick Baker on Glacial Geology and Canyon Geology [CD-ROMS] [1 of3], 1968
- 122.05 Combined - Good, John, Gerald Richmond, Ken Pierce, H.A. Waldrop, and Dick Baker on Glacial Geology and Canyon Geology [CD-ROMS] [2 of3], 1968
- 122.06 Combined - Good, John, Gerald Richmond, Ken Pierce, H.A. Waldrop, and Dick Baker on Glacial Geology and Canyon Geology [Magnetic Tape] [3 of3], 1968
- 122.07 Combined - Brief Geology of Yellowstone, Lecture Notes by R. L. Christiansen, 1969
- 122.08 Combined - Geyser-Hot Spring Probing (Temperatures), All Basins, 1969
- 122.09 Combined - Geothermal Correspondence, Observations, Research Proposals, Memos, Reports [1 of 2], 1970s

Box 123 Title

- 123 Combined - Roderick (Rick) Hutchinson Slides, 1970-1972

Box 124 Title

- 124 Combined - Roderick (Rick) Hutchinson Slides, 1970-1972

Box 125 Title

- 125 Combined - Roderick (Rick) Hutchinson Slides, 1970-1972

Box 126 Title

- 126 Combined - Roderick (Rick) Hutchinson Slides, 1970-1972

Series Nbr	Series Title
07	Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)
Box 127	Title
127	Combined - Roderick (Rick) Hutchinson Slides, 1970-1972
Box 128	Title
128	Combined - Roderick (Rick) Hutchinson Slides, 1970-1972
Box 129	Title
129	Combined - Roderick (Rick) Hutchinson Slides, 1970-1972
Box 130	Title
130	Combined - Roderick (Rick) Hutchinson Slides, 1970-1972
Box 131	Title
131	Combined - Roderick (Rick) Hutchinson Slides, 1970-1972
Box 132	Title
132	Combined - Roderick (Rick) Hutchinson Slides, 1970-1972
Box 133	Title
File Unit	Title
133.01	Combined - Geothermal Correspondence, Observations, Research Proposals, Memos, Reports, Backcountry Thermal Surveys [2 of 2], 1970s
133.02	Combined - Inventory/Descriptions of Photographs, Possibly by Roderick (Rick) Hutchinson, circa 1970-1984
133.03	Combined - Memos and Correspondence Regarding Various Thermal Features, 1970s-1990s (intermittent)
133.04	Combined - Geologic Features, Study and Correspondence, 1971
133.05	Combined - Index of Yellowstone Thermal Features by George Marler [1 of 3], 1971-1972
133.06	Combined - Index of Yellowstone Thermal Features by George Marler [2 of 3], 1971-1972
133.07	Combined - Index of Yellowstone Thermal Features by George Marler [3 of 3], 1971-1972
Box 134	Title
134	Combined - Rick Hutchinson Hydrothermal Correspondence and Reports, 1970s-1990s
Box 135	Title
135	Combined - Geothermal/Hot Spring Activity and Thermal Reports, Highlights, 1972-1995
Box 136	Title
136.01	Combined - Naming and History of Thermal Features (Includes Photographs) [1 of 2], circa 1972

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 136 (cont'd)**File Unit Title**

- 136.02 Combined - Naming and History of Thermal Features (Includes Photographs) [2 of 2], circa 1972
- 136.03 Combined - Reports on Lone Star Geysers, Heart Lake Hot Springs, and Terrace Springs by George Marler (?), 1972-1973
- 136.04 Combined - Thermal Observations and Memos by Sam Martinez, 1972-1975
- 136.05 Combined - Geologic Features, Studies and Features Correspondence and Memos, 1973
- 136.06 Combined - Imperial, Spray, and Lone Star Geysers Observations and Correspondence by Roderick (Rick) Hutchinson, 1973
- 136.07 Combined - Inventory of Thermal Features of the Firehole River Geysers Basins and Other Selected Areas by George Marler [1 of 2], 1973

Box 137**File Unit Title**

- 137.01 Combined - Inventory of Thermal Features of the Firehole River Geysers Basins and Other Selected Areas by George Marler [2 of 2], 1973
- 137.02 Combined - Thermal Observations, Memos, and Reports, 1973
- 137.03 Combined - Roderick (Rick) Hutchinson Thermal Research and Personal Notes, 1973 and undated
- 137.04 Combined - Various Thermal Features, Geothermal Survey, circa 1973
- 137.05 Combined - Summary of Prominent Springs and Geysers, 1973-1974
- 137.06 Combined - Correspondence Related to Various Thermal Features and Research Activities, 1973-1993, bulk 1973-1979
- 137.07 Combined - Geysers Activity Summaries, 1973-1998 (intermittent)
- 137.08 Combined - Pelican Creek Mud Volcano Memo, 1974
- 137.09 Combined - Thermal Observations, Reports, and Geothermal Specialist Activities, 1974
- 137.10 Combined - Three Rivers, Broadside, Mary Mountain, and Shoshone Observations and Notes, circa 1974-1975

Box 138**File Unit Title**

- 138.01 Combined - Prominent Springs and Geysers List, 1973, 1982 and undated
- 138.02 Combined - Thermal File, June 30, 1982 - July 15, 1982
- 138.03 Combined - Data Inventory of Thermal Features, 1982

Box 139**Title**

- 139 Combined - Whipple-Hutchinson Photograph Collection, circa 1973, 1983-1984, 1991-1992 and undated

Box 140**Title**

- 140 Combined - Whipple-Hutchinson Photograph Collection, circa 1973, 1983-1984, 1991-1992 and undated

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)

Box 141 Title

141 Combined - Whipple-Hutchinson Photograph Collection, circa 1973, 1983-1984, 1991-1992 and undated

Box 142**File Unit Title**

142.01 Combined - Geothermal Specialist Reports, Memos, and Correspondence, 1974-1978
 142.02 Combined - Mushpots-Pelican Creek Area Correspondence, Reports, Photographs, Observations, 1974-2008 (intermittent)
 142.03 Combined - Thermal Observations, Memos, Correspondence, 1975
 142.04 Combined - Snake River Hot Springs Thermal Observations and Correspondence, 1975-1976 and undated
 142.05 Combined - Activity of Jet Geyser and Fountain Complex Report and Observations, 1976
 142.06 Combined - Backcountry Thermal Surveys and Memos, 1976
 142.07 Combined - Bathymetry of Hot Lakes and Hot Water Craft Article and Letter by R. F. Kean, 1976
 142.08 Combined - Conditions in the Deepercis Parts of the Hot Spring Systems Report by A. H. Truesdell and R. O. Fournier, 1976
 142.09 Combined - Ebro Springs (Pelican Valley) Thermal Survey, 1976
 142.10 Combined - Geothermal Summary of Ochre Springs with Photographs, 1976
 142.11 Combined - Joseph's Coat Springs (Mirror Plateau-Broad Creek) Thermal Survey, 1976
 142.12 Combined - Mountain Ash Creek Thermal Survey, 1976
 142.13 Combined - Ponuntpa Springs Group Thermal Observations, 1976
 142.14 Combined - Reports on Hot Spring Activity in Yellowstone by Sam Martinez [1 of 2], 1976
 142.15 Combined - Reports on Hot Spring Activity in Yellowstone by Sam Martinez [2 of 2], 1976

Box 143 Title

143.01 Combined - Annual Reports: Geothermal Activities in the Thermal Basin of YNP by Roderick (Rick) Hutchinson, 1975
 143.02 Combined - Annual Reports: Geothermal Activities in the Thermal Basin of YNP by Roderick (Rick) Hutchinson, 1976
 143.03 Combined - Annual Reports: Geothermal Activities in the Thermal Basin of YNP by Roderick (Rick) Hutchinson, 1977
 143.04 Combined - Annual Reports: Geothermal Activities in the Thermal Basin of YNP by Roderick (Rick) Hutchinson, 1980
 143.05 Combined - Annual Reports: Geothermal Activities in the Thermal Basin of YNP by Roderick (Rick) Hutchinson, 1982
 143.06 Combined - Geothermal Observations by Volunteers-in-Parks and Geyser Gazers: George Bowman, 1987
 143.07 Combined - Geothermal Observations by Volunteers-in-Parks and Geyser Gazers: Scott Bryan, 1981, 1987-1988

Series Nbr Series Title07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)**Box 143 (cont'd)****File Unit Title**

- 143.08 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Mary Caress, 1976
- 143.09 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: J. Cross, 1992-1993
- 143.10 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: J. Day, 1994
- 143.11 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Demonge, 1998
- 143.12 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: D. Dobak, 1983
- 143.13 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: J. G. Espy, 1977
- 143.14 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Roger Evanhoff, 1993
- 143.15 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Allan Friedman, circa 1983
- 143.16 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: C. Goldberg, circa 1988, 1990
- 143.17 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: J. R. Hein, 1997
- 143.18 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Henry [no other decipherable name], 1997(?), 1999
- 143.19 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Bob Hoffman, 1981, 1997
- 143.20 Combined - Geothermal Observations by Volunteers-in-Parks and Geysers Gazers: Jack Hobart, 1996-1998

Box 144 Title

144 Combined - Roderick (Rick) Hutchinson Field Notebooks, 1976-1979

Box 145 Title

145 Combined - Roderick (Rick) Hutchinson Field Notebooks, 1976-1979

Box 146 Title

146.01 Combined - Roderick (Rick) Hutchinson Field Notebooks, 1976-1979

146.02 Combined - Roderick (Rick) Hutchinson Field Notebooks [**Digitized Material, plus Transcriptions by Rick's wife, Jennifer Whipple**], 1974-1995**Box 147****File Unit Title**

147.01 Combined - Sulphur Hills (Pelican Valley) Thermal Survey, 1976

147.02 Combined - Thermal Surveys for Un-Named Areas near Crawfish-Polecat Creek Hot Springs and East and West Spring Groups near Tributary to Beula Lake, 1976

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 147 (cont'd)**File Unit Title**

147.03 Combined - Vermillion Springs (Pelican Valley) Thermal Survey, 1976
 147.04 Combined - Backcountry Thermal Survey of Bog Creek Hot Springs, circa 1976
 147.05 Combined - Echinus, Vixen, and Link Geyser Observations, circa 1976
 147.06 Combined - Geyser File Cards Noting Temperature, Color, Turbidity, Discharge, and Comments, circa 1976-1980, bulk 1976, bulk 1980
 147.07 Combined - Butte Springs (Yellowstone Lake) Thermal Survey, 1977
 147.08 Combined - Pelican Cone, Landslide Hazard, Firehole River, and Monitoring Correspondence and Memos, 1977, 1983, 1986-1988
 147.09 Combined - Thermal Observations, Memos, and Reports, 1977
 [FF OVZ] Combined - Geologic Map of Sylvan Springs Area, circa 1977 [request FF 15, F2]
 147.10 Combined - Various Thermal Observations (Photographs Missing), 1977-1978
 147.11 Combined - Yellowstone and Turbid Lakes Project Summaries, Observations, Reports, and Research Proposal, 1977-1991 and undated
 147.12 Combined - Island Park Environmental Study, Briefing Statement, and Minutes of Mineral Land Evaluation Committee, circa 1977, 1986, 1993
 147.13 Combined - Correlation of Hayden Survey Designations with Current Spring Names, Report by Sam Martinez, 1978
 147.14 Combined - Geologic Setting of Sylvan Spring Geothermal Area, Thesis by Roderick (Rick) Hutchinson, 1978
 147.15 Combined - Report of Hot Spring and Geyser Activity August 20-September 3 by Sam Martinez, 1978
 147.16 Combined - Thermal Observations [bulk Upper Geyser Basin], 1978
 147.17 Combined - Thermal Reports, Observations, Correspondence, 1978

Box 148**File Unit Title**

148.01 Combined - GEOTHERM Sample File for the State of Wyoming, with Index, circa 1978
 148.02 Combined - Evaluation of Thermally Active Areas in Southwestern Yellowstone by Levinson and Marrs, 1979
 148.03 Combined - Island Park Geothermal Proposal Memo, 1979
 148.04 Combined - Thermal Observations, Memos, 1979
 148.05 Combined - Thermal Observations, Monthly Reports, 1979
 148.06 Combined - Thermal Reports, Memo, Correspondence, 1979
 148.07 Combined - Thermal Inventory of Unnamed Hot Springs on Northwest Shore of Lewis Lake, circa 1979
 148.08 Combined - Five Day and Monthly Comparative Reports, 1979-1981
 148.09 Combined - Thermal and Seismic Highlights of Yellowstone, 1979-1981 (intermittent)
 148.10 Combined - Comparison Temperatures for Splendid Geyser [Monthly Thermal Reports, Primarily Upper Geyser Basin], 1980
 148.11 Combined - Computerized Geothermal Programs, 1980
 148.12 Combined - Correspondence Regarding Backcountry Thermal Inventory, 1980

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 148 (cont'd)**File Unit Title**

- 148.13 Combined - Memo Regarding Changes in Hot Water Flow in Hot Springs State Park, Thermopolis, Wyoming, 1980
- 148.14 Combined - Ranger-Geyser Dictionary, Geyser Fields of the World, Facts and Theories about Old Faithful, 1980
- 148.15 Combined - Report on Geothermal Activity in the Upper and Lower Geyser Basins by Scott Bryan, and Memos, 1980
- 148.16 Combined - Thermal Observations, Logbook Data Listings, and Memos, 1980
- 148.17 Combined - Thermal Observations of Un-Named Thermal Area at Confluence of Broad and Shallow Creek, 1980
- 148.18 Combined - Mirror Plateau Thermal Observations and Article on Travertine Totem Forest by Rick Hutchinson and J. Michael Thompson, 1980 and undated
- 148.19 Combined - Boundary Creek and Specimen Ridge Letters, Boundary Creek Aerial Photographs and Overlay, 1980, circa 1984
- 148.20 Combined - Boundary Creek Thermal Areas Articles, Thermal Observations, Reports, Correspondence, and Photographs, circa 1980
- 148.21 Combined - Geothermal Monitoring Correspondence and Reports, 1980-1988, 1995, 1997

Box 149 Title

- 149 Combined - Thermal Area Discharge Measurements and Drawings Logbooks, circa 1980 and undated

Box 150**File Unit Title**

- 150.01 Combined - Thermal Observations and Photograph, 1981
- 150.02 Combined - Bechler Thermal Areas Reports, Correspondence, and Assessments, 1981, 1983 and undated
- 150.03 Combined - Geothermal Data for Monitor Creek, Correspondence Regarding Monitoring Upper Boundary Creek and Southwest Corner of YNP, 1981, 1983
- 150.04 Combined - Geologic Features - Studies and Features correspondence, 1981-1982
- 150.05 Combined - Boundary Creek Thermal Area Geothermal Observations, Reports, and Articles, 1981-1987 (intermittent)
- 150.06 Combined - Chloride, pH, Discharge Observations Logbook Pages, 1982
- 150.07 Combined - Investigator's Annual Report, Study of Thermal Features, 1982
- 150.08 Combined - Phantom Fumarole Thermal Area Thermal Survey, 1982
- 150.09 Combined - Research on Waimangu Geyser, 1982
- 150.10 Combined - Temperature Hot Line Memo, 1982
- 150.11 Combined - Thermal Information for the April 2 Press by Rick Hutchinson, 1982
- 150.12 Combined - Thermal Observations and Seismograph Roll Records, 1982
- 150.13 Combined - Thermal Observations by Scott Bryan, 1982
- 150.14 Combined - Geothermal Monitoring Correspondence and Memos, 1982-1983 and undated

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 150 (cont'd)**File Unit Title**

150.15 Combined - DOI Geological Survey-Wyoming Basic Data for Thermal Springs and Wells as Recorded in GEOTHERM, Report, 1983

150.16 Combined - Geologic Features Studies and Correspondence, 1983

150.17 Combined - Thermal Observations and Monthly Reports, 1983

150.18 Combined - Thermal Observations and Memos, 1983-1984

Box 151**File Unit Title**

151.01 Combined - Various Geyser Basin Reports by Marie Wolf and Rocco Paperiello [Gibbon, Lower Basin, Lone Star, Formation Hot Springs, Grand Canyon, Upper, Midway, Artists Paint Pots] [1 of 2], circa 1983-1985

151.02 Combined - Various Geyser Basin Reports by Marie Wolf and Rocco Paperiello [Gibbon, Lower Basin, Lone Star, Formation Hot Springs, Grand Canyon, Upper, Midway, Artists Paint Pots] [2 of 2], circa 1983-1985

151.03 Combined - Correspondence, Primarily from Rick Hutchinson [1 of 2], 1983-1998, bulk 1983-1995

151.04 Combined - Correspondence, Primarily from Rick Hutchinson [2 of 2], 1983-1998, bulk 1983-1995

151.05 Combined - Geologic Features Study and Correspondence, 1984

151.06 Combined - NSF Project Summary on Ancient Earth-Sun-Moon Dynamics and Plate Movement Information Preserved in Stromatolites by James P Vanyo, 1984

151.07 Combined - Thermal Observations, 1984

151.08 Combined - Instrumental Monitoring of Thermal Activity in Remote Areas of YNP Report by Friedman, Norton, and Hutchinson, circa 1984

151.09 Combined - Geysers of Russia (Kamchata) Geothermal Data, Graphs, and Inventory, 1984, 1993-1994

151.10 Combined - Geologic Features Studies and Correspondence, 1985

151.11 Combined - Thermal Observations, 1985

Box 152**File Unit Title**

152.01 Combined - Reports, Data, and Correspondence on Geyser Observations by R.C. Taylor and B.K. Taylor [1 of 4], 1985-1994, 1997

152.02 Combined - Reports, Data, and Correspondence on Geyser Observations by R.C. Taylor and B.K. Taylor [2 of 4], 1985-1994, 1997

152.03 Combined - Reports, Data, and Correspondence on Geyser Observations by R.C. Taylor and B.K. Taylor [3 of 4], 1985-1994, 1997

152.04 Combined - Reports, Data, and Correspondence on Geyser Observations by R.C. Taylor and B.K. Taylor [4 of 4], 1985-1994, 1997

152.05 Combined - Calcite Springs Report by Marie Wolf and Rocco Paperiello, 1986

152.06 Combined - Geologic Features Studies and Correspondence, 1986

152.07 Combined - Report on Lesser Known Thermal Units of YNP 1981-1985 by Marie Wolf and Rocco Paperiello [1 of 3], 1986

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 153**File Unit****Title**

- 153.01 Combined - Report on Lesser Known Thermal Units of YNP 1981-1985 by Marie Wolf and Rocco Paperiello [2 of 3], 1986
- 153.02 Combined - Report on Lesser Known Thermal Units of YNP 1981-1985 by Marie Wolf and Rocco Paperiello [3 of 3], 1986
- 153.03 Combined - Thermal Observations and Memos, 1986
- 153.04 Combined - Various Thermal Observations by Bob Bohman and Memos, 1986
- 153.05 Combined - Thermal Observations and Correspondence, 1986-1990
- 153.06 Combined - Mushpot Fumarole Geothermal Data, Reports, and Memos, 1986-1992
- 153.07 Combined - Geologic Features Studies and Correspondence, 1987
- 153.08 Combined - Geothermal Observations of the Upper and Lone Star Geyser Basins Report by Phil Landis, 1987

Box 154**File Unit****Title**

- 154.01 Combined - Geysir Observation Logbook, 1987
- 154.02 Combined - Memo Regarding Number of Geysers in Yellowstone, 1987
- 154.03 Combined - Thermal History of Hot Spring Areas Around Yellowstone Lake Report by Rick Hutchinson, 1987
- 154.04 Combined - Thermal Report by Scott Bryan, 1987
- 154.05 Combined - Yellowstone's Hydrothermal Features Article and Draft by Rick Hutchinson and Jennifer Whipple, circa 1987
- 154.06 Combined - Jackson Lake Hot Springs Geothermal Data, Correspondence, and Collection Permit, 1988
- 154.07 Combined - Division of Research, Records for Upper, Norris, Lower, and Monument Basins Logbook and Hand-Drawn Maps by Phil Landis [1 of 3], 1988
- 154.08 Combined - Division of Research, Records for Upper, Norris, Lower, and Monument Basins Logbook and Hand-Drawn Maps by Phil Landis [2 of 3], 1988
- 154.09 Combined - Division of Research, Records for Upper, Norris, Lower, and Monument Basins Logbook and Hand-Drawn Maps by Phil Landis [3 of 3], 1988

Box 155**File Unit****Title**

- 155.01 Combined - Hydrothermal Observations in YNP 1988 Upper, Lower, Lone Star, Norris, and Monument Basins Report by Phil Landis [1 of 2], 1988
- 155.02 Combined - Hydrothermal Observations in YNP 1988 Upper, Lower, Lone Star, Norris, and Monument Basins Report by Phil Landis [2 of 2], 1988
- 155.03 Combined - Research on Yellowstone's Geothermal and Geologic Features Project Summaries, 1988
- 155.04 Combined - Use of the Mercury Anomaly Method to Characterize the Hydrothermal System of the Northern Boundary Area Progress Report by Paul Conn and Janice Hudgings, 1988
- 155.05 Combined - Hydrothermal Eruption Deposits and Crater of Eastern Yellowstone park Article Draft by Donald White and Rick Hutchinson [photocopy], 1989

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 155 (cont'd)

File Unit	Title
155.06	Combined - Summary of USGS Thermal Research, 1989
155.07	Combined - Number of Geysers in Yellowstone List and Correspondence, 1990
155.08	Combined - Controls and Distribution of Yellowstone Hydrothermal Systems Article Abstract (?), circa 1990
155.09	Combined - Thermal Inventory of Alum Creek Thermal Area (Rick Hutchinson), circa 1990
155.10	Combined - Geyser Predictions Standard Operating Procedures, Notes, and Statistics, 1990s
155.11	Combined - List of USGS Publications and Maps, Final Report of Yellowstone Field Research Seminar Notes, 1991
155.12	Combined - Thermal Observations, 1991
155.13	Combined - Thermal Inventory of Lower Violet Creek Thermal Area (Rick Hutchinson), circa 1991
155.14	Combined - Data, Notes, and Reports from Tim Thompson [1 of 3], 1991-1996

Box 156

File Unit	Title
156.01	Combined - Data, Notes, and Reports from Tim Thompson [2 of 3], 1991-1996
156.02	Combined - Data, Notes, and Reports from Tim Thompson [3 of 3], 1991-1996
156.03	Combined - Hot Spring Cone Confluence of Broad and Shallow Creeks, Observations and Article, 1992
156.04	Combined - Rainbow Hot Springs Thermal Inventory, Correspondence, Hand-Drawn Maps, 1992
156.05	Combined - Thermal Observations and Correspondence, 1992
156.06	Combined - North of Yellowstone Lake Hydrothermal Explosions, Draft of Article and Maps, circa 1992
156.07	Combined - Road Logs and Obsidian Cliff Correspondence, 1993 and undated
156.08	Combined - Thermal Observations and Correspondence, 1993
156.09	Combined - Thermophilic Microorganism Survey, circa 1993-1999
156.10	Combined - Bibliography of New Geologic Publications and Articles by Rick Hutchinson, 1994
156.11	Combined - Observations in Shoshone Geyser Basin, Heart Lake, Rabbit Creek, 1994
156.12	Combined - Thermal/IR Flight Correspondence and Imagery, 1994 and undated
156.13	Combined - New Thermal Feature and USGS Monitoring Correspondence and Memos, 1995
156.14	Combined - Whipple-Hutchinson Photograph Collection, Lake Baikal Group, 1995
156.15	Combined - Compiled Observations and Corrections by Jeff Cross [1 of 2], 1995-1996
156.16	Combined - Compiled Observations and Corrections by Jeff Cross [2 of 2], 1995-1996

Box 157

File Unit	Title
157.01	Combined - Correspondence Regarding Article on the Location of Oblique Geyser by H. Koenig, 1996

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 157 (cont'd)**File Unit Title**

157.02 Combined - Thermal Observations and Geyser Updates, 1996
 157.03 Combined - Geyser Log for April 8-May 16 Print-Out, 1997
 157.04 Combined - Report on Hot Spring Clean-Up in Upper, Midway, and Lower Geyser Basins by Mike and Cynthia Keller, 1997
 157.05 Combined - Report on Thermal VIP Activity by Ralph C. Taylor, 1997
 157.06 Combined - Activity Reports and Correspondence, 1997-1998
 157.07 Combined - Geyser Summaries, Firehole and Norris, 1997-1998
 157.08 Combined - Thermal Volunteer Observation Report (Multiple Basins), 1998
 157.09 Combined - Thermal Inventory Field Sheets, 1998
 157.10 Combined - Thermal Clean-Up Reviews by Mike Keller, 1998-1999
 157.11 Combined - Ferris Fork Hot Springs Hydrothermal Activity Report, News clippings, Maps, and Correspondence, 1998, 2008
 157.12 Combined - Microbial Inventory of the Greater Yellowstone Ecosystem Thermal Features Proposal Outline, 2000
 157.13 Combined - Fairyland Basin Correspondence Requesting Permission to Name Feature, 2000
 157.14 Combined - A Remote Sensing Map of Yellowstone's Geothermals, 2002
 157.15 Combined - Diversion of Obsidian Creek in Relation to Potential Stimulation (Renewed Activity) of the Semi-Centennial Geyser, Hypothesis by Jan Roberts, 2002
 157.16 Combined - Lone Star Geyser Resource Damage News Release and Photographs, 2003
 157.17 Combined - Nymph Lake Thermal Activity Correspondence and Photographs, 2003
 157.18 Combined - Thermal Inventory Land Planning Maps, 2004
 157.19 Combined - Geothermal Protection and Safety Article, 2005
 157.20 Combined - Hot Springs Basin Geothermal Data and Maps, 2006

Box 158 Title

158 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 159 Title

159 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 160 Title

160 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 161 Title

161 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 162 Title

162 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 163 Title

163 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)

Box 164 Title

164 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 165 Title

165 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 166 Title

166 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 167 Title

167 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 168 Title

168 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 169 Title

169 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 170 Title

170 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 171 Title

171 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 172 Title

172 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 173 Title

173 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 174 Title

174 Combined - Thermal Inventory/Survey Logbooks, 1999-2008

Box 175

File Unit Title

175.01 Combined - Hydrothermal Processes above a Large Magma Chamber: Large Hydrothermal Systems and Explosions in Yellowstone, Article with Edits, circa 2007

175.02 Combined - Reconnaissance of the Terrace Spring Area Report, 2008

175.03 Combined - Gas Monitoring Stations Logbook, 2008-2009

175.04 Combined - Clear Lake Trail Thermal Area Observations, Maps, Correspondence, and Report, 2009

175.05 Combined - Evaluating the Use of Landsat Imagery for Monitoring Geothermal Heat Flow, Report and Correspondence (Shannon Savage), 2009

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 175 (cont'd)**File Unit Title**

- 175.06 Combined - Geologic Investigation of 11 September 2009 Thermal Injury Site at West Nymph Creek Thermal Area Report, 2009
- 175.07 Combined - Comments and Suggested Changes to Yellowstone Resources and Issues 2019 by Bob Fournier, 2010
- 175.08 Combined - Thermal Area Trespass Contacts Data, 2014
- 175.09 Combined - Calcite Springs Thermal Activity Maps and Observations by K. Pierce, undated
- 175.10 Combined - Chemical Evidence of Subsurface Structure and Fluid Flow in a Geothermal System Report by A.H. Truesdell, undated
- 175.11 Combined - Coffee Pot Hot Springs (Mirror Plateau) Thermal Survey, undated
- 175.12 Combined - Effects of Geothermal Development on Hydrothermal Areas of the World by Rick Hutchinson, undated
- 175.13 Combined - Geyser and Springs of the Grand Canyon of the Yellowstone Report by Rocco Paperiello, undated
- 175.14 Combined - Geology of Hot Spring Basin Group Draft Research Proposal, undated
- 175.15 Combined - Geothermal Summaries of Various Thermal Features [missing title page], undated
- 175.16 Combined - Hobo Pro Data Logger List of Thermal Features, undated

Box 176**File Unit Title**

- 176.01 Combined - Inventory of Thermal Features by George Marler [1 of 5], undated
- 176.02 Combined - Inventory of Thermal Features by George Marler [2 of 5], undated
- 176.03 Combined - Inventory of Thermal Features by George Marler [3 of 5], undated
- 176.04 Combined - Inventory of Thermal Features by George Marler [4 of 5], undated
- 176.05 Combined - Inventory of Thermal Features by George Marler [5 of 5], undated
- 176.06 Combined - Inventory of Thermal Resources of Yellowstone National Park, undated
- 176.07 Combined - Jeff Cross Compilation of Front and Backcountry Thermal Areas, undated
- 176.08 Combined - Proposed News Names for Thermal Features (Domestic Geographic Name Reports), undated
- 176.09 Combined - Reports on Sulphur Springs (Crater Hills), Orange Spring Group, and Round Spring Group by Marie Wolf and Rocco Paperiello, undated

Box 177**File Unit Title**

- 177.01 Combined - Report on Various Geothermal Features [not complete], undated
- 177.02 Combined - Summaries of Thermal Features Affected and Not Affected by 1959 Hebgen Earthquake, undated
- 177.03 Combined - Whipple-Hutchinson Photograph Collection, Cleaning of Morning Glory Spring, 1992
- 177.04 Combined - Whipple-Hutchinson Photograph Collection Inventory by Barbara Reed, undated

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 177 (cont'd)**File Unit Title**

177.05 Combined - Whipple-Hutchinson Photograph Collection, Miscellaneous Photographs and Negatives, undated

Box 178 Title

178 Combined - Infrared Chart Rolls, possibly Old Faithful? [1 of 10], 1975-1976

Box 179 Title

179 Combined - Infrared Chart Rolls, possibly Old Faithful? [2 of 10], 1976-1986

Box 180 Title

180 Combined - Infrared Chart Rolls, possibly Old Faithful? [3 of 10], 1986

Box 181 Title

181 Combined - Infrared Chart Rolls, possibly Old Faithful? [4 of 10], 1992

Box 182 Title

182 Combined - Infrared Chart Rolls, possibly Old Faithful? [5 of 10], 1992-1993

Box 183 Title

183 Combined - Infrared Chart Rolls, possibly Old Faithful? [6 of 10], 1993-1994

Box 184 Title

184 Combined - Infrared Chart Rolls, possibly Old Faithful? [7 of 10], 1994-1996

Box 185 Title

185 Combined - Infrared Chart Rolls, possibly Old Faithful? [8 of 10], 1995-1996

Box 186 Title

186 Combined - Infrared Chart Rolls, possibly Old Faithful? [9 of 10], 1995-1996

Box 187 Title

187 Combined - Infrared Chart Rolls, possibly Old Faithful? [10 of 10], 1997-1998

Box 188-191 Title

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189 [LEFT EMPTY FOR FUTURE USE]

190 [LEFT EMPTY FOR FUTURE USE]

191 [LEFT EMPTY FOR FUTURE USE]

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)

Box 192**Title**

- 192.01 Firehole - Observation Forms, 1959
- 192.02 Firehole - Hot Spring Activity for the Season Reports by G.D. Marler (1 of 2), 1959-1964, 1967-1968
- 192.03 Firehole - Hot Spring Activity for the Season Reports by G.D. Marler (2 of 2), 1969-1973
- 192.04 Firehole - Hot Spring Activity in Geyser Basins of Firehole River for 1963 Season, 1963
- 192.05 Firehole - Hot Spring Activity in the Geyser Basins of the Firehole River by Roderick (Rick) Hutchinson, January 1974
- 192.06 Firehole - Hot Spring Activity in the Firehole River Report and Correspondence, 1975
- 192.07 Gibbon - Geyser Basin Observation Forms, Slides, and Photographs [includes photograph of Beryl Spring in 1923], 1923, 1959
- 192.08 Gibbon - Monument Geyser Basin Observation Form, Notes, and Photographs, 1959
- 192.09 Gibbon - Gibbon Canyon Observations and Photographs, 1959
- 192.10 Gibbon - Geyser Springs Group Geothermal Summary, 1974
- 192.11 Gibbon Hill Geyser Group Report by Rocco Paperiello and Marie Wolf, 1986
- 192.12 Gibbon - Geyser Springs Thermal Observations, 1994
- 192.13 Gibbon - Artists Paintpots Trail Reports on Temperature Data and Maps, 2008
- 192.14 Heart Lake - Correspondence re: Naming New Geyser, 1965
- 192.15 Heart Lake - Geothermal Summaries, Correspondence, Case Incident Records, 1973-1995, undated (intermittent)
- 192.16 Heart Lake - Rustic Group Observations, Activity Reports, and Memos, 1974-1986 (intermittent)

Box 193**File Unit****Title**

- 193.01 Heart Lake - Geyser Basin Report by R. Paperiello, 1987
- 193.02 Heart Lake - Log Book, 1992-1995
- 193.03 Heart Lake - Thermal Observations and Maps, 1993, undated
- 193.04 Heart Lake - Thermal Inventory Field Sheets and Maps, 1998
- 193.05 Lower - Observations by William J. Lewis, 1960, 1962-1963
- 193.06 Lower - Logbook, 1964
- [OVZ FF] Lower - Maps of Kaleidoscope and Clepsydra Thermal Areas [2 Maps], 1974(?)
[request FF 15, F7]
- 193.07 Lower - Geothermal Investigation of Young Hopeful: Gray Bulger Spring Complex, 1975
- 193.08 Lower - Activity Report by Mary Caress, October 1976
- 193.09 Lower - Activity Reports, Observations, 1976-1994 (intermittent)
- 193.10 Lower - Fountain Paint Pot Thermal Observations by J.W. Hutchinson, 1980
- 193.11 Lower - Great Fountain Geyser Geothermal Monitoring and Reports [1 of 5], 1980-1998
- 193.12 Lower - Great Fountain Geyser Geothermal Monitoring and Reports [2 of 5], 1985-1993 (intermittent)

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 194**File Unit Title**

- 194.01 Lower - Great Fountain Geyser Geothermal Monitoring [3 of 5], 1990
- 194.02 Lower - Great Fountain Geyser Geothermal Monitoring [4 of 5], 1991
- 194.03 Lower - Great Fountain Geothermal Monitoring [5 of 5], 1993
- 194.04 Lower - Pine Spring and its Mysterious Formations, Report by Marie Wolf, 1981, 1984
- 194.05 Lower - White Dome Observations, Maps, Correspondence, 1981, 1985, 1986
- 194.06 Lower - River Group Observations, Report by Rocco Paperiello and Marie Wolf, 1982-1983
- 194.07 Lower - White Creek Group Report by Rocco Paperiello and Marie Wolf, circa 1983-1984

Box 195**File Unit Title**

- 195.01 Lower - Observations by Geyser Observation and Study Association, 1984
- 195.02 Lower - Great Fountain Geyser Log Book, 1984-1986
- 195.03 Lower - Kaleidoscope, Morning and Deep Blue Geysers, 1988-1992
- 195.04 Lower - Sentinel Group: Historical Perspective and Present Day Activity by Rocco Paperiello, 1990
- 195.05 Lower - Activity of Morning Geyser and Other Features in the Fountain Complex Report by Lynn Stephens, 1991
- 195.06 Lower - Activity of Morning Geyser and Other Features in Fountain Complex Report, Geothermal Monitoring, Photograph, News Clippings by Lynn Stephens, 1991
- 195.07 Lower - Clepsydra, Jet, Fountain Activity Reports by Lynn Stephens, 1991
- 195.08 Lower - Fountain Geyser Report by Lynn Stephens, 1991
- 195.09 Lower - Spasm Geyser, Twig Geyser, Super Frying Pan: Reports by Lynn Stephens, 1991-1992
- 195.10 Lower - Fountain Groups, Geothermal Monitoring, Reports and Photographs, 1991-1995
- 195.11 Lower - Pink Cone Group Geothermal Monitoring and Report, 1992-1995

Box 196**File Unit Title**

- 196.01 Lower - Notes of Geyser Eruptions in 1990s Volume 1 by David Starck [1 of 3], 1994
- 196.02 Lower - Notes of Geyser Eruptions in 1990s Volume 2 by David Starck [2 of 3], 1994
- 196.03 Lower - Notes of Geyser Eruptions in 1990s Volume 3 by David Starck [3 of 3], 1994
- 196.04 Lower - White Dome Geyser Geothermal Summary by Tim Thompson, 1996
- 196.05 Lower - Thermal Inventory Field Sheets and Maps, 1998
- 196.06 Lower - Cavern Spring Geothermal Summary, circa 2001
- 196.07 Lower - River Group Notes, undated
- 196.08 Mammoth Hot Springs Reports and Nature Notes, 1926-1955 (intermittent)
- 196.09 Mammoth - Photographs Showing Winter Conditions of Hot Springs, Pools and Terraces at Mammoth (to Accompany Naturalists Report for February 1932), 1930-193
- 196.10 Mammoth Hot Springs Activity Reports and Observations, 1954-1965
- 196.11 Mammoth - Summary of Research and Notes for Summer of 1963, 1963

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 197**File Unit Title**

197.01 Mammoth - Hot Spring Activity Reports and Memos, 1970-1975
 197.02 Mammoth - Hot Springs Thermal Observation Log, 1974-1994
 197.03 Mammoth - Logbook of Mammoth Hot Spring Activity, 1974-1994
 197.04 Mammoth - Hot Springs Data and Reports, 1976-1989
 197.05 Mammoth - What's Up At Boiling River? Report, 1989
 197.06 Mammoth - Integrated Natural and Injected Multi Component Tracer Experiments: Hot Springs (Article by Spell, et al.), 1992
 197.07 Mammoth - Thermal Inventory Field Sheets and Maps, circa 1998
 197.08 Mammoth - Mammoth Hot Springs Thermal Observations, 1999
 197.09 Mammoth - Mammoth Hot Springs Thermal Observations, 2000
 197.10 Mammoth - Mammoth Hot Springs Thermal Observations, 2001

Box 198**File Unit Title**

198.01 Mammoth - Mammoth Hot Springs Thermal Observations, 2002
 198.02 Mammoth - Mammoth Hot Springs Thermal Observations, 2003
 198.03 Mammoth - DOQQ Printouts (Satellite Imagery), 2005
 198.04 Mammoth - Correspondence re: Upper Terrace Drive Hydrothermal Area, 2009
 198.05 Mammoth - Analysis of Formation of Mammoth Hot Springs Report, undated
 198.06 Midway - USGS Statement of Water Analysis for Excelsior Geyser, 1959
 198.07 Midway - Opal Geyser Observations, 1982
 198.08 Midway - Geyser Basin Report by R. Paperiello and M. Wolf, circa 1983
 198.09 Midway - Excelsior Geyser Memo re: 1985 Eruption and Xanterra Newsletter Article, 1985, 2004
 198.10 Midway - Flood Geyser Activity Data, Observations and Reports, 1992-1997
 198.11 Midway - Flood Geyser Update, 1994
 198.12 Midway - Grand Prismatic and Surrounding Area Topographic Map, undated
 198.13 Mud Volcano - Annual Reports and Memos, 1927-1990 (intermittent)
 198.14 Mud Volcano - Annual Summaries and Correspondence, 1927-1998 (intermittent)
 198.15 Mud Volcano - Resistivity, Self-Potential, and Induced-Polarization Surveys of a Vapor-Dominated Geothermal System: Publication by Zohdy, Anderson, and Muffler, 1973
 198.16 Mud Volcano - Abstract: Thermal Changes Related to Earthquake Activity at Mud Volcano by A.M. Pitt, 1979, 1982
 198.17 Mud Volcano - Memo re: Dragons Mouth Hydrothermal Deposits Analysis and Photocopy of Scanning Electron Microscope, 1981
 198.18 Mud Volcano - Sulphur Caldron Memos re: Collapsed Overlook, 1981-1983
 198.19 Mud Volcano - Field Logs [1 of 5], 1990-2006

Box 199**File Unit Title**

199.01 Mud Volcano - Field Logs [2 of 5], 1990-2006
 199.02 Mud Volcano - Field Logs [3 of 5], 1990-2006

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 199 (cont'd)**File Unit Title**

199.03 Mud Volcano - Field Logs [4 of 5], 1990-2006
 199.04 Mud Volcano - Field Logs [5 of 5], 1990-2006
 199.05 Mud Volcano - Correspondence re: Proposed Name for Unnamed Feature, 1994

Box 200**File Unit Title**

200.01 Mud Volcano - Naming of Obsidian Pool, 1994, 2000
 200.02 Mud Volcano - Thermal Summary, Annual Summary, 1996
 200.03 Mud Volcano - Thermal Activity Summaries, Copies of Source Materials and Correspondence, 1997-2005 (intermittent)
 200.04 Mud Volcano - Thermal Inventory Field Sheets, circa 1998
 200.05 Mud Volcano - Correspondence re: Exhibits on Churning Cauldron and Cooking Hillside and Copies of Source Materials, 2003, 2008
 200.06 Mud Volcano- Satellite (Quickbird) Images and Rocky Mountain CESU Research Proposal, 2008
 200.07 Mud Volcano- Electromagnetic Ground Conductivity Survey of Mud Volcano Parking Area, undated
 200.08 Norris - History Photographs [1 of 2], 1900s-1950s
 200.09 Norris - History Photographs [2 of 2], 1900s-1950s
 200.10 Norris - Monthly Thermal Activity Reports, Observations, Temperatures, and Notes, circa 1909-1983 and undated

Box 201**File Unit Title**

201.01 Norris - Reports, 1927-1954
 201.02 Norris - Thermal Observation Reports and A Compilation of Data on Characteristics of Named Thermal Features, 1928-1959
 201.03 Norris - Thermal Observations, 1947-1969 (intermittent)
 201.04 Norris - Annual Thermal Reports and Correspondence [1 of 2], 1949, 1967-1980
 201.05 Norris - Annual Thermal Reports and Correspondence [2 of 2], 1949, 1967-1980
 201.06 Norris - Annual Reports and Memos [1 of 5], 1960-1961, 1964, 1971, 1975-1979
 201.07 Norris - Annual Reports and Memos [2 of 5], 1980-1989

Box 202**File Unit Title**

202.01 Norris - Annual Reports and Memos [3 of 5], 1989-1991
 202.02 Norris - Annual Reports and Memos [4 of 5], 1992-1993
 202.03 Norris - Annual Reports and Memos [5 of 5], 1994-1995, 1998-2000
 202.04 Norris - Observations and Monthly Reports, 1960-1969, 1975 and undated
 202.05 Norris - Observations, Reports, Case Reports, 1960-1995 (intermittent)
 202.06 Norris - Report by George Marler, circa 1961
 202.07 Norris - Observations and Statistics, circa 1961-1981 and undated

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 203**File Unit Title**

- 203.01 Norris - Historical Geothermal Records (New Crater and Steamboat Geysers) Reports, Press Releases, Observations, Correspondence, 1962, 1964, 1982-1985, 1990
- 203.02 Norris - Norris Geyser Basin Update, Photographs With Negatives, 1964 and undated
- 203.03 Norris - Norris and Sylvan Springs Notes by T. D. Brock, circa 1969-1973
- 203.04 Norris - Monthly Reports and Summaries, circa 1970-1972
- 203.05 Norris - Observations, Records, Reports, Correspondence, 1970s-1990s
- 203.06 Norris - Thermal Observation Report, Memos, 1970s-1990s
- 203.07 Norris - Steamboat Geyser Updates, Memos, Data, 1970s-1990s
- 203.08 Norris - Changes in Thermal Activity, 1971-1972
- 203.09 Norris - Observations, Notes, Correspondence, circa 1971-1987
- 203.10 Norris - Annual Thermal Report, 1972
- 203.11 Norris - Changes in Thermal Activity, 1972-1973
- 203.12 Norris - Monthly Reports and Correspondence, Observations, circa 1972-1980
- 203.13 Norris - Watson, Verde Report and Edwin, Leigh Annual Thermal Report Supplement, 1972 and undated
- 203.14 Norris - Temperatures, 1973-1974
- 203.15 Norris - Echinus Geyser Observations and Data, circa 1974-1996 (intermittent)

Box 204**File Unit Title**

- 204.01 Norris - Valentine Geyser Observations, 1974 and undated
- 204.02 Norris - Various Geyser Observations, circa 1974-1979
- 204.03 Norris - Porcelain Basin Reports, Correspondence, 1975-1976, 1983
- 204.04 Norris - Monthly Report, July, 1975
- 204.05 Norris - Super Heated Fumarole Memo, 1977
- 204.06 Norris - Geyser Basin Annual Report, 1978
- 204.07 Norris - Thermal Changes Summary, 1978
- 204.08 Norris - Recent Thermal Changes Memo, February 1978
- 204.09 Norris - Steamboat and Porcelain Basin Correspondence, 1978, 1983
- 204.10 Norris - Porkchop and Steamboat Observations, Press Release, Reports, 1978-1992, undated (intermittent)
- 204.11 Norris - Summer Geothermal Activity Report, 1980
- 204.12 Norris - Echinus Geyser Eruption Records, Observations, Reports, 1980-1994 (intermittent)
- 204.13 Norris - Temperatures and Thermal Observations by Linda Young Green, 1982
- 204.13 Norris - Activity of Black Pit Observations by Grover Schrayner and David Scheel, Norris Geyser Basin Report by Schrayner, 1983
- 204.14 Norris - An Idea to the Cause of the Norris Disturbances, Hutchison Draft, 1984
- 204.15 Norris - Geyser Basin Report (1 of 2), 1984
- 204.16 Norris - Geyser Basin Report (2 of 2), 1984

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 205**File Unit Title**

- 205.01 Norris - Geyser Basin Report by Rocco Paperiello, Bill Pulliam, Marie Wolf, 1984
- 205.02 Norris - Thermal Activity and Cistern Spring Composition Fluctuations USGS Papers and Observations, 1984, 1986
- 205.03 Norris - Echinus Geyser Observations by Roderick Hutchinson, 1986
- 205.04 Norris - Unnamed Thermal Area West of Norris Observations by Scott Bryan, 1986
- 205.05 Norris - Possible Precursor Signs to the Annual Widespread Thermal Disturbance, circa 1986
- 205.06 Norris - Chloride Flux and Hydrothermal Monitoring Weir Data, Abstract, and Article, 1986-1987, 1994
- 205.07 Norris - Cistern Spring Observations, 1986, 1988-1990 and undated
- 205.08 Norris - USGS Professional Paper: The Geology and Remarkable Activity of Norris, 1988
- 205.09 Norris - Cistern Spring Chloride Log, 1989-1990
- 205.10 Norris - Steamboat Geyser Reports and Correspondence, circa 1989-2013 (intermittent)

Box 206**File Unit Title**

- 206.01 Norris - Geyser Basin and Vicinity Thermal Report, 1990
- 206.02 Norris - Tantalus Creek Observations, Reports, and Correspondence, 1990, 1992, 1994
- 206.03 Norris - Geyser Gazer Correspondence and Observation, 1990, 1996-1997 and undated
- 206.04 Norris - Conditions Leading to a Recent Small Hydrothermal Explosion Publication, 1991
- 206.05 Norris - Veteran Geyser Report, 1991-1992
- 206.06 Norris - Echinus Geyser Report, 1993
- 206.07 Norris - Monarch Geyser Eruption Records, Report, 1994-1995
- 206.08 Norris - Geyser Basin Notebook: Irving Friedman, 1994-2003
- 206.09 Norris - New Features Correspondence, 1995
- 206.10 Norris - Nomenclature: Feature Names, 1995
- 206.11 Norris - Koenig, H. Location of Oblique Geyser Article and Correspondence, circa 1996
- 206.12 Norris - Notes and Reports Compiled by Carolyn Duckworth, 1997
- 206.13 Norris - Thermal Inventory Field Sheets and Maps, 1998
- 206.14 Norris - Annual Thermal Report by Smokey Sturtevant, 1999
- 206.15 Norris - Steamboat Press Clippings, Correspondence, Geothermal Records, 2000-2003
- 206.16 Norris - Summary of Thermal Observations, Report, 2001

Box 207**File Unit Title**

- 207.01 Norris - Geothermal Report, 2002
- 207.02 Norris - Results of Weekly Chemical and Isotopic Monitoring During June -September 1995, 2002
- 207.03 Norris - Geothermal Study, Report, Photographs (YCR and University of Utah), 2002-2003

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 207 (cont'd)**File Unit Title**

207.04 Norris - Area Closure Press Releases, Correspondence, Chronological Log of Events, and Video of Closed Area, 2003

207.05 Norris - Deploy Monitoring Equipment Approval, Maps, Correspondence, Photos, Geothermal Monitoring, 2003

207.06 Norris - Report and Correspondence, 2003

207.07 Norris - Hydrothermally Altered Rock and Minerals at Norris (Presentation), circa 2004

207.08 Norris - Cinder Pool Monitoring Data, 2005

207.09 Norris - GeoCorps in YELL: Constructing a Digital Geodatabase for Norris Abstract Submission, 2005

207.10 Norris - Geyser Basin Database, 2005

207.11 Norris - Monarch History Correspondence from Lynn Stephens, 2008

Box 208**File Unit Title**

208.01 Norris - Minute Geyser Correspondence, 2009

208.02 Norris - Comprehensive Geyser Basin Report, Manuscript [Authored by Watson?], undated

208.03 Norris - Geyser Activity Summaries, undated

208.04 Norris - Manuscript Draft by Roderick Hutchinson, undated

[FF OVZ] Norris - Maps and Measurements, undated [request FF 14, F11]

208.05 Norris - Numerical Modeling of Heat, Water, and Chemical Transport, undated

208.06 Norris - Roderick (Rick) Hutchinson Manuscript Regarding Feature History and Characteristics, undated

208.07 Norris - Thermal Injury Account by Roderick Hutchinson, undated

208.08 Norris Geyser Basin Logbooks, 1964

208.09 Norris Geyser Basin Logbooks, 1965

Box Title

209 Norris Geyser Basin Logbooks, 1966-1972

Box Title

210 Norris Geyser Basin Logbooks, 1970-1973

Box Title

211 Norris Geyser Basin Logbooks, 1974-1980

Box Title

212 Norris Geyser Basin Logbooks, 1980-1992

Box Title

213 Norris Geyser Basin Logbooks, 1990-1998

Series Nbr Series Title07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)**Box Title**

214 Norris Geyser Basin Logbooks, 1995-2003

Box Title

215 Norris Geyser Basin Logbooks, 2001-2021

Box Title

216 [LEFT EMPTY FOR FUTURE USE]

Box 217**File Unit Title**

217.01 Shoshone - Shoshone Lake Observation Forms, Photographs, 1959

217.02 Shoshone – Thermal Basin Maps, Geothermal Summaries, Memos, Correspondence, 1965-1994, and undated (intermittent)

217.03 Shoshone - Thermal Activity and General Conditions, 1973

217.04 Shoshone - Description of Geyser Basin, Hand Drawn Map Showing Trail Geyser and Locomotive Geyser, circa 1975

217.05 Shoshone - Thermal Activity Reports, Memo re: Effects of Blasting, Observations, Summaries, Correspondence, 1975-1993 undated (intermittent)

217.06 Shoshone - Minute Man Geyser Geothermal Monitoring, 1981, 1995

217.07 Shoshone - Hot Springs of the Central Part of the Shoshone Geyser Basin, Report by Rocco Paperiello, undated

217.08 Shoshone - Thermal Activity and General Conditions Report by Roderick (Rick) Hutchinson, and Geyser Names and Notes, undated

217.09 Upper - Giantess Geyser Geothermal Monitoring: Report by H. Koenig, 1870-1995, undated (intermittent)

217.10 Upper - Phenomena, Old Faithful [Floodlighting] Memos and Correspondence, 1924

217.11 Upper - Biscuit Basin Correspondence with Dr. Van Pelt, 1926

217.12 Upper - Old Faithful Auto Camp Daily Reports and Checks [photocopies], 1929

217.13 Upper - Riverside Geysers: Geothermal Records, Correspondence, Analysis Graphs, 1931-1991, undated (intermittent)

217.14 Upper - Geothermal Monitoring, Reports, 1937-1995 (intermittent)

217.15 Upper - Are the Geysers Declining? by Oberhansley, F.R., 1938

217.16 Upper - Springs and Other Thermal Features Along Firehole River Group by C. Max Bauer, 1942

Box 262 Title**(NOTE: OVERSIZE)**

262 Upper - Data Listings, circa 1949-1987 (intermittent)

Box 217 (cont'd)**File Unit Title**

217.17 Upper - Yellowstone Nature Notes: Geyser Hill Trail by G.D. Marler, circa 1949

217.18 Upper - Old Faithful Winter Recordings [Data], 1949-1950 [**OVZ; in box 28**]

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 217 (cont'd)**File Unit Title**

- 217.19 Upper - Winter Observations of Hydrothermal Activities in the Upper Geyser Basin by George Marler in the Winter of 1952-1953, 1953
- 217.20 Upper – Giant Geyser Geothermal Monitoring, Correspondence, and Reports, 1956-1997 (intermittent)

Box 218**File Unit Title**

- 218.01 Upper - Monthly Geyser Report, 1958
- 218.02 Upper - Hand Drawn Maps and Data on Thermal Features, 1958-1992 (intermittent)
- 218.03 Upper - Biscuit Basin Observation Forms and Photos, 1959
- 218.04 Upper - Castle Group Observation Forms and Photographs, 1959
- 218.05 Upper - Chain Lake Group Observation Forms and Photographs, 1959
- 218.06 Upper - Daisy Group Observation Forms and Photographs, 1959
- 218.07 Upper - Geyser Hill Observation Forms and Photos, 1959
- 218.08 Upper - Giant Group Observation Forms, 1959
- 218.09 Upper - Grand Group Numbers: 94-135 and 160-180 Observation Forms and Photos, 1959
- 218.10 Upper - Grotto Group Observation Forms, 1959
- 218.11 Upper - Morning Glory Observation Forms and Photographs, 1959
- 218.12 Upper - Myriad Group Numbers: 344-382 Observation Forms, Photographs, and Memo, 1959, 1982

Box 219**File Unit Title**

- 219.01 Upper - What Do You Know About Grand Geyser? By G. Marler, circa 1962
- 219.02 Upper - 1965 Earth Tremors Generated By Old Faithful Geyser: A Preliminary Investigation, Photos, 1965
- 219.03 Upper - Old Faithful Info Documents, Memos, Some Facts About Old Faithful by Bauer and Marler, 1967-1991, undated (intermittent)
- 219.04 Upper - Geothermal Monitoring of Churn, North Goggle, Plate, Round, and Link Geysers, 1968-1991 (intermittent)
- 219.05 Upper - Thermal and Seismic Indications of Old Faithful's Inner Workings by John S. Rinehart [Publication], 1969
- 219.06 Upper - Old Faithful Bypass Spring Memos, Reports, and Correspondence, 1969-1970
- 219.07 Upper - Memo re: Old Faithful Exhibit on Giant Geyser in Kamchatka, 1971
- 219.08 Upper - The Prediction of Old Faithful's Next Eruption: Publication by J. Barbee, 1971
- 219.09 Upper - Mechanics of Eruptions of Old Faithful: Report by John S. Rinehart, circa 1972
- 219.10 Upper- Old Faithful Infrared and Eruption Correspondence, 1972-1973, 1978, and undated
- 219.11 Upper - Logbook of Other Upper Geysers, 1972-1975
- 219.12 Upper - Inventory of Thermal Features along the Firehole River by J.R. Marler, 1973
- 219.13 Upper - Old Faithful Activity for August, 1973

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 219 (cont'd)**File Unit Title**

219.14 Upper - Daisy Group Reports With Edits, 1973, 1975, 1978, 1984, and undated

219.15 Upper - Old Faithful Activity Charts, Correspondence, and Data, 1973-1994 (intermittent)

[FF OVZ] Upper- Maps of Black Sand, Biscuit, Hillside, Myriad, Upper Basin Sewage Plant [7 Maps], 1974 (?) [request FF 15, F8]

Box 220**File Unit Title**

220 Upper - Old Faithful Data, First Differences (Intervals between Eruptions) and Second Differences Computer Program Printout, 1973

Box 221**File Unit Title**

221.01 Upper - Old Faithful Geyser: Geothermal Monitoring, Correspondence, re: Seismic Activity, Reports [1 of 6], 1974-1982

221.02 Upper - Old Faithful Geyser Geothermal Monitoring [2 of 6], 1983-1984

221.03 Upper - Old Faithful Geyser Geothermal Monitoring, Reports, Correspondence [3 of 6], 1984-1987

221.04 Upper - Old Faithful Geyser Eruption Records and Analysis, Reports, Correspondence [4 of 6], 1987-1989

221.05 Upper - Old Faithful Geyser Geothermal Monitoring, Reports, Intervals [5 of 6], 1987-1991

221.06 Upper - Old Faithful Geyser Geothermal Monitoring, Reports [6 of 6], circa 1992-2001 (intermittent)

Box 222**File Unit Title**

222.01 Upper - Old Faithful and Surrounds Data [Photocopied Logs] [1 of 2], 1974-1976

222.02 Upper - Old Faithful and Surrounds Data [Photocopied Logs] [2 of 2], 1974-1976

222.03 Upper - Round, Sawmill, West Triplet Geothermal Monitoring and Summaries, 1974-1994 (intermittent)

222.04 Upper - Biscuit Basin: Correspondence, Observation Summaries, 1975, 1986

222.05 Upper - Morning Glory Memos and Correspondence, 1975, 1990, undated

222.06 Upper - Beehive Geyser Geothermal Monitoring, Observations, and Report Edits, 1975-1997 (intermittent)

222.07 Upper - Myriad Group, May 1976

222.08 Upper - Black Sand Basin: Observations, Reports, Memo, 1976-1992 and undated (intermittent)

222.09 Upper - Castle Geyser Observations and Memo, Correspondence [1 of 2], 1976-1994

222.10 Upper - Castle Geyser Observations [2 of 2], 1995-2000

222.11 Upper - Observations of Artemesia, Fan, Mortar, Link, Round, Sawmill, and Oblong, 1977

Series Nbr Series Title07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)**Box 223****File Unit Title**

- 223.01 Upper - Lion Group Geothermal Monitoring, Reports, and Report Edits, 1977, 1979-1991 and undated
- 223.02 Upper - Depression, Vault, and Plume Observations, 1977-1985 (intermittent)
- 223.03 Upper - Old Faithful Activity Data, January-April, 1978
- 223.04 Upper - Old Faithful Activity Data, May-August, 1978
- 223.05 Upper - Old Faithful Activity Data, September-October, 1978
- [FF OVZ] Upper - Old Faithful Regression Charts, Summary of Old Faithful Activity, and Blank Monitoring Templates by John R. Railey, 1978 and undated [**request FF 15, F9**]
- 223.06 Upper - Daisy Group Observations, 1978
- 223.07 Upper - Eruption Characteristics of Grand Geysir, June 1978
- 223.08 Upper - Old Faithful Increased Intervals Memo, March 1978
- 223.09 Upper - Changes in Upper and Giant Geysir Eruption Correspondence, 1978, 1984, 1986
- 223.10 Upper - Giant Geysir Historical Records, Observations, Reports, 1978-1987

Box 224**File Unit Title**

- 224.01 Upper - Grand Geysir Geothermal Monitoring, 1978-1987, 1993-1997
- 224.02 Upper - Giantess Geysir Geothermal Monitoring, Summaries, Press Release and Criminal Complaint for Thermal Trespass, 1978-1995
- 224.03 Upper - Old Faithful Activity Data and Correspondence, 1979-1980 (intermittent)
- 224.04 Upper - Daisy Geysir Eruption Records, 1979-1991
- 224.05 Upper - Depression Geysir Geothermal Monitoring, 1979-1991
- 224.06 Upper - Fan and Mortar Geysers Geothermal Monitoring, Observations and Reports, 1979-1991 (intermittent)
- 224.07 Upper - Oblong Geysir Geothermal Records and Correspondence, 1979-1991 (intermittent)
- 224.08 Upper - Plume Geysir Geothermal Monitoring, Report Edits and Analysis Graphs, Report, 1979-1991, 1994-1996
- 224.09 Upper - Aurum Geysir Geothermal Monitoring and Observations, 1979-1998 (intermittent)
- 224.10 Upper - Artemesia Geysir Geothermal Monitoring and Observations, 1979-1999 and undated (intermittent)
- 224.11 Upper - Monthly Thermal Reports for Daisy Group, 1980

Box 225**File Unit Title**

- 225.01 Upper - USGS Report [and drafts] on Old Faithful: A Database for 1987-1989 and Old Faithful Facts and Figures, 1980s, 1990
- 225.02 Upper - Old Faithful Activity Data and Correspondence, 1980-1981
- 225.03 Upper - Daisy and Splendid Geysers Geothermal Monitoring and Summary, 1980-1994 (intermittent)

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 225 (cont'd)

File Unit	Title
225.04	Upper - Geothermal Monitoring, Reports, Correspondence, Memos, Lists of Geysers in Upper, 1980-1998 (intermittent)
225.05	Upper - Various Thermal Observations, Thermal Reports and News Clipping, 1980s-1990s
225.06	Upper - Riverside Geyser Geothermal Observations, 1980-2000 (intermittent)
225.07	Upper - Old Faithful Activity Data, First and Second Difference [1 of 3], 1981
225.08	Upper - Old Faithful Activity Data, First and Second Difference [2 of 3], 1981

Box 226

File Unit	Title
226.01	Upper - Old Faithful Activity Data, First and Second Difference [3 of 3], 1981
226.02	Upper - Hot Water Problem at Old Faithful Memos and Correspondence, 1981-1984
226.03	Upper - B-Type Seismic Events, Pre-Eruption Seismic Quiet, and Harmonic Tremor at Old Faithful; Implications for Volcanic Seismicity by S.W. Kieffer [publication], circa 1982
226.04	Upper - Hydrothermal Changes in the Upper after the 1983 Borah Peak, ID Earthquake Report by Hutchinson, 1983
226.05	Upper - Old Faithful Activity Data and Memos, 1982-1983
226.06	Upper - Report and Memo With Edits on the Destructive Eruption of Fan and Mortar Geysers, 1983
226.07	Upper - Rainbow Hot Springs Observations and Reports, 1983, 1990
226.08	Upper - Plume Geyser Geothermal Monitoring and Observations [1 of 3], 1983-1992 (intermittent)
226.09	Upper - Plume Geyser Geothermal Monitoring [2 of 3], 1993
226.10	Upper - Plume Geyser Geothermal Monitoring and Summary [3 of 3], 1994-1998

Box 227

File Unit	Title
227.01	Upper - Grand Geyser: Geothermal Monitoring, Correspondence, Summaries and Publication, An Argument Against Periodic Behavior and a Discussion of Earth Tide Correlation and Giant Geyser Monitoring [1 of 5], 1983-1994
227.02	Upper - Giant Geyser: Geothermal Monitoring [2 of 5], 1995-2001
227.03	Upper - Grand Geyser: Geothermal Monitoring [3 of 5], 1990
227.04	Upper - Grand Geyser: Geothermal Monitoring [4 of 5], 1990
227.05	Upper - Grand Geyser: Geothermal Monitoring [5 of 5], 1991
227.06	Upper - Fan and Mortar Geysers Geothermal Monitoring, Summaries, Presentation, 1983-1997 (intermittent)
227.07	Upper - Geyser Process: Theory, Modeling, Natural Experiments, Publication, 1984
227.08	Upper - Geologic Nozzle Report by S.W. Kieffer and Correspondence, circa 1984

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 228**File Unit Title**

- 228.01 Upper - Hydrothermal Changes in the Upper after the 1983 Borah Peak, ID Earthquake Publication, Edits, and Correspondence (Hutchinson), 1984
- 228.02 Upper - Daisy Geyser Logbook, 1984-1986
- 228.03 Upper - Beehive Geyser Logbook, 1984-1986
- 228.04 Upper - Castle Geyser Logbook, 1984-1986
- 228.05 Upper - Grand Geyser Logbook, 1984-1986
- 228.06 Upper - Riverside Geyser Logbook, 1984-1986
- 228.07 Upper - Old Faithful Activity Data, 1984-1989 (intermittent)
- 228.08 Upper - Water Systems, 1984, 1994
- 228.09 Upper - Depression Geyser Geothermal Monitoring, 1984-1998 (intermittent)
- 228.10 Upper - Atomizer Geyser and Its Major Intervals by David Leeking, 1985
- 228.11 Upper - Firehole Pool Photographs and Correspondence, 1985
- 228.12 Upper - Permanent Station Record of Upper Record of Automobile and Fire Permits 1922-1923, 1985

Box 229**File Unit Title**

- 229.01 Upper - Rearrangement of Grand Group Report by J.R. Railey, 1985
- 229.02 Upper - Old Faithful Geyser Investigator's Annual Reports, 1985, 1987, 1990
- 229.03 Upper - Cascade Group Memo and Correspondence Regarding New Geyser Activity, 1986
- 229.04 Upper - Daisy Geyser Logbook, 1986
- 229.05 Upper - Riverside Geyser Annual Report, 1986
- 229.06 Upper - Correspondence re: New Geyser Activity, 1986, 1988
- 229.07 Upper - Jewel Geyser: Observations and Summary, 1986, 1990-1991
- 229.08 Upper - Various Geysers: Observations and Photographs (possible) Geyser Gazer Reports, 1986, 1992-1993 and undated
- 229.09 Upper - Old Faithful Eruption Times and Data, 1986-1988 [**OVZ, physically located in Box 28**]
- 229.10 Upper - Giant Geyser: Observations and Reports, 1986-1997
- 229.11 Upper - Fantail and Ouzel Geysers Report (Marie Wolf), 1987

Box 230**File Unit Title**

- 230.01 Upper - Phil Landis Records for Upper Geyser Basin [1 of 2], 1987
- 230.02 Upper - Phil Landis Records for Upper Geyser Basin [2 of 2], 1987
- 230.03 Upper - Old Faithful Activity Data [1 of 2], 1987-1988
- 230.04 Upper - Old Faithful Activity Data and Correspondence [2 of 2], 1987-1988
- 230.05 Upper - Giant Geyser Notes and Hot Periods, circa 1987-1990
- 230.06 Upper - Lion and Little Cub Geothermal Monitoring and Observations, 1987-1994 and undated (intermittent)
- 230.07 Upper - Old Faithful Activity Data, 1988-1989

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 231**File Unit****Title**

- 231.01 Upper - Observations, Summaries, Thermal Violations, 1988-1994 (intermittent)
 231.02 Upper - Grotto Geyser Geothermal Monitoring [1 of 3], 1988-1994 (intermittent)
 231.03 Upper - Grotto Geyser Geothermal Monitoring [2 of 3], 1994-1995
 231.04 Upper - Grotto Geyser Geothermal Monitoring Reports [3 of 3], 1995-1999 (intermittent)
 231.05 Upper - The Grotto Group Activity Summary, Temperature Records, and Records, 1988, 1995
 231.06 Upper - Lone Star, Morning Glory, Oblong Geothermal Monitoring, Summaries, Correspondence, 1988-1998 (intermittent)
 231.07 Upper - Giant Geyser Geothermal Monitoring by Mary Ann Motts, 1989
 231.08 Upper - Grand Geyser Runoff Records, 1989, 1992
 231.09 Upper - National Science Foundation Proposal Coversheet and Project Summary, circa 1989

Box 232**File Unit****Title**

- 232.01 Upper - Black Sand Basin Geothermal Monitoring and Reports, 1991-1995
 232.02 Upper - Seismicity of Old Faithful Geyser - Primary Results, Report by S. Kedar and H. Kanamori, 1992
 232.03 Upper - "A Short Voyage Towards the Center of the Earth" video and narration of Old Faithful vent, 1992
 232.04 Upper - Rusty Geyser: Correspondence, Press Releases and Clippings, Incident Reports Regarding Geothermal Core Hole, 1992-1993
 232.05 Upper - Biscuit Basin: Jewel and Rusty Geysers Geothermal Monitoring, 1992-1995
 232.06 Upper - Plume Geyser Temperature Monitoring Log, 1993
 232.07 Upper - Biscuit Basin Thermal Observations, 1994
 232.08 Upper - Daisy Geyser Geothermal Monitoring, 1994-1996
 232.09 Upper - In Situ Investigations in Old Faithful, Report by Westphal, Kieffer, and Hutchinson and Correspondence, 1995
 232.10 Upper - Nonlinear Process and Data Analysis: Defining Attributes of Data Sets, with Old Faithful as an Example, Report by Woo, Kieffer, and Hutchinson [draft], 1995
 232.11 Upper - Pyramid Geyser Report (Taylor, R.), 1995
 232.12 Upper - Old Faithful Thermal Area Video and Photographs, 1995, 2003
 232.13 Upper - Selected Geyser Summaries, 1996
 232.14 Upper - Crested Pool Survey Video, 1997
 232.15 Upper - Thermal Inventory Field Sheets and Map, 1998
 232.16 Upper - Prediction Clues Report, 1999
 232.17 Upper - Giant Geyser, Giantess Geyser and Silex Spring Notes by Rocco Paperiello, 2001
 232.18 Upper - South Purple Pool Activity by M. Keller, 2001
 232.19 Upper - NSF Proposal Project Summary, Correspondence, and Maps, circa 2001
 232.20 Upper - Draft Geology Technical Report, 2002
 232.21 Upper - Old Faithful Cone Annual Survey, 2006

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box 233**File Unit Title**

233.01 Upper - Wall Pool Monitoring, 2006
 233.02 Upper - Activity of Black Opal, Black Diamond, and Wall Pools Geothermal Monitoring and Correspondence, 2009
 233.03 Upper - Old Faithful Comprehensive Plan, Interdisciplinary Team Roles and Responsibilities, 2009
 233.04 Upper - Visual Assessment of Old Faithful Eruption Heights, 2010
 233.05 Upper - Analysis of Grand Temperatures and Geothermal Gases in Laurel Dorm Area, 2011
 233.06 Upper - Black Diamond Pool Eruptions Report by R. Powell, undated
 233.07 Upper - "The Explosive History of Wall Pool and Black Opal Pool in Biscuit Basin" by Rocco Paperiello, undated
 233.08 Upper - History of Giant Geyser, undated
 233.09 Upper - Old Faithful Eruption Infrared Records and Correspondence, undated
 233.10 Upper - Old Faithful Eruption Intervals and Hutchinson Interp Info Paper, undated
 233.11 Upper - Photograph of Big Cub Geyser Eruption with Note from Rick Hutchinson, undated
 233.12 Upper - Sketch Maps of Pipeline Creek Group, undated
 233.13 Upper - Table of Named Hot Springs in Upper, undated
 233.14 Upper - The Riverside Geyser Since 1871 Article by George Marler, undated
 233.15 Upper - Why Old Faithful Erupts by G. Marler, undated

Box Title

234 [LEFT EMPTY FOR FUTURE USE]

Box Title

235 [LEFT EMPTY FOR FUTURE USE]

Box 236**File Unit Title**

236.01 Upper - Old Faithful Logbook, 1940
 236.02 Upper - Old Faithful Logbook, 1941
 236.03 Upper - Old Faithful Logbook, 1942
 236.04 Upper - Old Faithful Logbook, 1946
 236.05 Upper - Old Faithful Logbook, 1947
 236.06 Upper - Old Faithful Logbook, 1948
 236.07 Upper - Old Faithful Logbook, 1950
 236.08 Upper - Old Faithful Logbook, 1951
 236.09 Upper - Old Faithful Logbook, 1952

Box Title

237 Upper - Old Faithful Logbooks, 1952-1958

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07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (cont'd)

Box Title

238 Upper - Old Faithful Logbooks, 1957-1962

Box Title

239 Upper - Old Faithful Logbooks, 1962-1967

Box Title

240 Upper - Old Faithful Logbooks, 1968-1973

241 Upper - Old Faithful Logbooks, 1974-1977

242 Upper - Old Faithful Logbooks, 1978-1981

243 Upper - Old Faithful Logbooks, 1981-1984

244 Upper - Old Faithful Logbooks, 1984-1986

245 Upper - Old Faithful Logbooks, 1986-1988

246 Upper - Old Faithful Logbooks, 1988-1990

247 Upper - Old Faithful Logbooks, 1990-1991

248 Upper - Old Faithful Logbooks, 1992-1993

249 Upper - Old Faithful Logbooks, 1993-1995

250 Upper - Old Faithful Logbooks, 1995-1997

251 Upper - Old Faithful Logbooks, 1997-1999

252 Upper - Old Faithful Logbooks, 1998-2001

253 Upper - Old Faithful Logbooks, 2000-2002

254 Upper - Old Faithful Logbooks, 2002-2004

255 Upper - Old Faithful Logbooks, 2004-2006

256 Upper - Old Faithful Logbooks, 2006-2008

257 Upper - Old Faithful Logbooks, 2008-2010

258 Upper - Old Faithful Logbooks, 2010-2013

259 Upper - Old Faithful Logbooks, 2013-2015

260 Upper - Old Faithful Logbooks, 2015-2017

261 Upper - Old Faithful Logbook, 2017

262 [see Upper - Data Listings, circa 1949-1987 (intermittent)]

263 [LEFT EMPTY FOR FUTURE USE]

Box 264**File Unit Title**

264.01 West Thumb - Thermal Reports and Historical Data, 1871-1993 (intermittent)

264.02 West Thumb - Annual Reports, Thermal Reports, Memos, Maps, Reports [1 of 2], 1878-1995 (intermittent)

264.03 West Thumb - Annual Reports, Thermal Reports, Memos, Maps, Reports [2 of 2], 1878-1995 (intermittent)

264.04 West Thumb - Annual Thermal Highlight Reports, 1951-1993

264.05 West Thumb - Potts Hot Springs Observation Form, 1959

264.06 West Thumb - Map, 1960

264.07 West Thumb - Reports and Correspondence, 1961, 1975-1994 (intermittent)

264.08 West Thumb - A Study of West Thumb Geyser Basin by Griggs, 1970-1971

Series Nbr Series Title

07 Thermal Features, 1870-2013 (bulk dates: 1920-2009) (**cont'd**)

Box 264 (cont'd)**File Unit Title**

264.09 West Thumb - Observations, Memos and Activity Summaries, 1973-1995 (intermittent)

[FF OVZ] West Thumb Area – Marking Thermal Locations, circa 1975 [**request FF 15, F6**]

264.10 West Thumb - Lone Pine and Occasional Geysers Geothermal Monitoring, Correspondence, and Memos, 1979-1998 (intermittent)

264.11 West Thumb - Activity of Lone Pine Geyser by Grover Schroyer III, 1983

264.12 West Thumb - Thermal Basin Reports by J. Selleck and R. Paperiello, 1983-1984

264.13 West Thumb - Potts Hot Spring Basin Investigation and Report by Paperiello and Wolf, 1984

264.14 West Thumb Report - Winter, 1987-88

264.15 West Thumb - News Clippings, Press Releases, 1991-1992

264.16 West Thumb - Thermal Activity in the Grant to Old Faithful Road near West Thumb Junction: Report by Heasler, Jaworowski, and Mahony, 2009

264.17 West Thumb - Correspondence re: Increased Activity, 2011-2012

264.18 West Thumb – Preliminary and Unedited History of the West Thumb Geyser Basin [Rocco Paperiello?], undated

Box Title

265 [EMPTY FOR FUTURE USE]

266 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

267 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

268 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

269 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

270 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

271 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

272 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

273 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

274 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

275 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

276 Lone Star - Logbooks [observations and comments made by members of the public], 1984-2019, 2021

277 [LEFT EMPTY FOR FUTURE USE]

Oversize Materials

Box 28

Box 66

Flat File 15

Unit No.	Title
FF 15.02	Combined – Geologic map of Sylvan Springs Area, circa 1977
FF 15.05	Turbid Lake (Hydrothermal Explosions), undated
FF 15.06	West Thumb Area Marking Thermal Locations
FF 15.07	Lower- Maps of Kaleidoscope and Clepsydra Thermal Areas [2 maps], 1974(?)
FF 15.08	Upper- Maps of Black Sand, Biscuit, Hillside, Myriad, Upper Basin Sewage Plant [7 Maps], 1974 (?)
FF 15.09	Upper – Old Faithful Regression Charts, Summary of Old Faithful Activity, and Blank Monitoring Templates by John R. Railey, 1978 and undated
FF 15.10	Yellowstone Seismicity Maps 1973-1981 and 1972-1995, 1981 and undated
FF 15.11	Norris - Maps and Measurements, undated
FF 15.12	Identified Earthquake Fault Systems within Yellowstone National Park, 1950(?)

Separated Media

Box 288 - Separated Media [see separation sheets throughout collection]

Box 289 - Separated Media [see separation sheets throughout collection]

Box 290 - VHS tapes [see separation sheets throughout collection]

Box 291 – Soundscapes, [see boxes 115 and 116]

Box 292 - Soundscapes, [see boxes 115 and 116]