



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

GEORGE HOMANS ELDRIDGE
(1854 - 1905)

NOTES, CORRESPONDENCE, PAPERS

1880 - 1902

(3.3 linear ft. and 3 map folders)

George H. Eldridge was born in Yarmouth, Massachusetts, in 1854. He graduated from Harvard University in 1876 and worked for the Geological Survey of Kentucky, the U.S. Census Bureau, and the Transcontinental Survey of the Northern Pacific Railroad before joining the staff of the USGS in 1884. Eldridge remained with the agency for his entire career, pursuing investigations of Rocky Mountain geology, coal and petroleum resources of the western U.S., phosphate deposits in Florida, natural occurrences of asphalt in Utah, California, and Cuba, the geology and topography of Alaska, and nationwide occurrences of artesian wells.

INVENTORY

By

Clay M. Martin
U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
November 2011

Location of Field Notebooks: CS-4: 4-5

**INVESTIGATION OF THE MINING INDUSTRY, BUTTE AND HELENA
AREAS, SILVER BOW COUNTY, MONTANA, FOR THE NORTHERN
TRANSCONTINENTAL SURVEY OF THE NORTHERN PACIFIC
RAILROAD. 1880.**

<u>Item Number</u>	<u>Description</u>
NO-12246	Envelope with handwritten, 55- page document entitled "Original Notes on Summit Valley Mining District". The notes were taken by Eldridge during his employment with the Transcontinental Survey of the Northern Pacific Railroad and were an attempt to gather information on "the character of the ore-bodies with particular reference to their permanency, and to gather statistical information concerning the consumption of materials, wages, and products" (from page one of the document). The work, done under the direction of Raphael Pumpelly, was intended to gauge the district's economic potential as a customer of the Northern Pacific Railroad's freight hauling business. 1880.

**INVESTIGATIONS OF MONTANA AND NORTH DAKOTA COALS FOR
THE NORTHERN TRANSCONTINENTAL SURVEY OF THE
NORTHERN PACIFIC RAILROAD. 1881-1884.**

NO-12247	G.H. Eldridge. Envelope with notebook entitled "Geologic Exploration N.P.R.R. Cross Section Book", with geologic notes and sketches related to coal and fossil investigations in Montana for the Northern Transcontinental Survey. A note on the cover reads "used in Bull. 647, 1917". November-December 1881.
NO-12248	G.H. Eldridge. Field notebook with soil sample notes and sketches related to field investigations of coal resources in Meagher County, Montana for the Northern Transcontinental Survey. A note on the cover reads "used in Bull. 647, 1917". September-October, 1882.
NO-12249	G.H. Eldridge. Field notebook with soil sample notes and sketches related to field investigations of coal resources in Meagher County, Montana for the Northern Transcontinental Survey. A note on the cover reads "used in Bull. 647, 1917". October-November, 1882.
NO-12250	G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of coal resources in the Bull Mountain coal Field, Montana for the Northern Transcontinental Survey. A note on the cover reads "used in Bull. 647, 1917". May-September, 1883.

- NO-12251 G.H. Eldridge and W. Lindren. Field notebook with geologic notes and sketches related to field investigation of coal resources in the Bull Mountain coal Field, Montana for the Northern Transcontinental Survey. A note on the cover reads "used in Bull. 647, 1917". Also included is a group of 20 loose sheets with notes on similar subject matter. September-October, 1883.
- NO-12252 Envelope with draft copy of a 109-page report entitled "Report on Northwest coals, Northern Transcontinental Survey", by George H. Eldridge. The report describes a geographic area including "The Eastern slopes of the Rocky Mountains, in Montana, the portion lying east of them, and what may be styled the Mouse River district in Northern Dakota". The first page of the manuscript is typed; the remainder is handwritten with numerous annotations. 1884.
- NO-12253 Envelope with six-page, handwritten report entitled "Report on Reconnaissance of Coal field situated nine miles east of Gallatin Montana and on the Missouri Canon Coal field", by J.E. Wolff. 1883.
- NO-12254 Envelope with seven-page, handwritten report entitled "Report on Rock Creek Coalfield Montana", by J.E. Wolff. 1884.
- NO-12255 G.H. Eldridge and J.E. Wolff. Envelope with sketchbook entitled "Bozeman Coalfield and others", with 34 pages of topographic and geologic sketch maps and notes related to coal investigations in the Bozeman area, Montana, for the Northern Transcontinental Survey. 1882-1883.
- NO-12256 G.H. Eldridge. Envelope with sketchbook entitled "Bull Mountain coal field, Montana", with approximately 100 pages of topographic and geologic sketch maps and geologic cross-section diagrams related to coal investigations in the Bull Mountain area, Montana, for the Northern Transcontinental Survey. No date.
- NO-12257 G.H. Eldridge. Envelope with sketchbook entitled "N.T.S. Odd Notes", with approximately 100 pages of notes, sketch maps and geologic cross-section diagrams related to geologic investigations in Montana for the Northern Transcontinental Survey. No date.

GEOLOGIC INVESTIGATIONS IN THE GUNNISON AND SALIDA AREAS, COLORADO. 1884.

- NO-12258 G.H. Eldridge. Field notebook I with geologic notes and sketches related to field investigations in the Crested Butte-Mount Emmons-Anthracite Ridge area, Colorado. July-September, 1884.
- NO-12259 G.H. Eldridge. Field notebook II with geologic notes and sketches related to field investigations in the Crested Butte-Lake Irwin-Ohio Creek area, Colorado. September-October, 1884.

- NO-12260 G.H. Eldridge. Field notebook III with geologic notes and sketches related to field investigations in the Crested Butte-Ohio Peak-Carbon Creek-Mount Wilkinson area, Colorado. Also included are notes taken near Salida and Wellsville, Colorado. October-November, 1884.
- NO-12261 G.H. Eldridge. Level book 3 with survey data and sketches related to mapping in Gunnison County, Colorado. August-September 1884.
- NO-12262 G.H. Eldridge. Notebook V with seven annotated panoramic sketches showing geology and topography in Gunnison County, Colorado. 1884.
- NO-12263 G.H. Eldridge. Notebook VI with geologic notes and sketches and stratigraphic section, fossil, and coal data related to field investigations in Gunnison County, Colorado. 1884.
- NO-12264 Document box with 18 folders:
- Folder 1. Group of Union Pacific Railway Company Coal Department daily drilling reports related to prospecting work in the Gunnison District. 1886.
 - Folder 2. Group of loose sheets with geologic notes related to field investigation in the Crested Butte area. No date.
 - Folder 3. Group of 49 pages of typed draft text for a report on the geology and mineral resources of the Gunnison area. No date.
 - Folder 4. Group of four sheets with notes entitled "Sections in the Gunnison Field and in the Arkansas Canons". No date.
 - Folder 5. Group of sheets with geologic notes and sketches and section diagrams related to field investigations in the Gunnison area. No date.
 - Folder 6. Group of sheets with notes entitled "Gunnison Sections". No date.
 - Folder 7. Group of sheets with section diagrams related to field investigations in the Gunnison area. No date.
 - Folder 8. Group of six sheets with miscellaneous notes related to field investigations in the Gunnison area. No date.
 - Folder 9. Group of three sheets with lists describing the contents of Eldridge notebooks I, II, and III, July-November, 1884 (See NO-12258 through NO-12260, above).
 - Folder 10. Group of seven sheets with strike and dip measurements for rock strata in the Gunnison area. No date.
 - Folder 11. Group of five sheets with section diagrams related to field investigations in the Gunnison area. No date.
 - Folder 12. Group of seven sheets with listings of geologic data with the heading "Text to Section". No date.
 - Folder 13. Group of 10 sheets with geologic notes and sketches related to stratigraphy in an unidentified area. No date.
 - Folder 14. Group of 12 sheets with geologic notes and sketches related to stratigraphy in an unidentified area. No date.
 - Folder 15. Thirteen-page handwritten letter (plus cover sheet), dated

September 20, 1885, from George H. Eldridge to Samuel F. Emmons (Emmons was Geologist in Charge of the USGS Rocky Mountain District at the time). The letter summarizes Eldridge's field investigations in the Gunnison and Salida areas to that date.

- Folder 16. Group of field notebook pages with trigonometric calculations related to survey work in the Gunnison area. No date.
- Folder 17. Group of sheets with carbon copies of correspondence between George H. Eldridge and Samuel F. Emmons related to Eldridge's field investigations in the Gunnison and Salida areas. August-December, 1885. Also included is a letter to Eldridge from Frederic F. Chisholm, a mining engineer for the Union Pacific Railway, dated August 24, 1886, describing field investigations in the Gunnison area.
- Folder 18. Sketch map of the Italian Mountain-Cascade Creek-Crescent Creek area, Gunnison County, Colorado, with geologic and cartographic survey annotations. No date.

MA-03107 Map folder with 18 field maps composed of enlarged reproductions of portions of preliminary versions of the Anthracite and Crested Butte 15' quadrangles, Colorado, most with annotations.

Published as: U.S. Geological Survey. Geologic atlas of the United States. Folio 9. 1894.

GEOLOGIC INVESTIGATION OF THE DENVER BASIN, COLORADO. 1885-1895.

- NO-12265 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigations in the Denver Basin, Colorado. May-November, 1885.
- NO-12266 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. November 1885-January 1886.
- NO-12267 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. January-February, 1886.
- NO-12268 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. February-July, 1886.
- NO-12269 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. May-June 1886.
- NO-12270 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. June-July 1886.
- NO-12271 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. July-August 1886.

- NO-12272 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. August-September 1886.
- NO-12273 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. October 1886.
- NO-12274 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. October-December 1886.
- NO-12275 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. December 1886-January 1887.
- NO-12276 G.H. Eldridge and J.W. Hart. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. September-December (no year noted, but probably 1886 or 1887).
- NO-12277 G.H. Eldridge and J.W. Hart. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. December 1886-February 1887.
- NO-12278 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigation of the Denver Basin, Colorado. 1890.
- MA-03108 Map folder with five items:
- Four topographic maps, sectioned and mounted on linen for field use, covering the Denver, Colorado area at a scale of 1:63,360. East and west boundaries approximately 104.5-105.5 degrees longitude; south and north boundaries approximately 39.3-40.1 degrees latitude. Some annotations.
 - Group of four sheets of correspondence between G.H. Eldridge and officials of the Union Pacific and Denver and Rio Grande Railway companies, concerning surveyed locations of various landmarks along rail lines in the Denver, Colorado area. 1895.
- MA-03109 Map folder with 18 items:
- Map showing route of Burlington and Missouri River Railroad and Burlington Ditch northeast of Denver, Colorado. Circa 1885.
 - Ten topographic map fragments covering portions of the Denver, Colorado area at a scale of 1:63,360, with annotations. No date.
 - Four sketch maps on vellum, covering the Boulder, Colorado, area at a scale of approximately 1:16,500, showing stream drainages and prominent landmarks. No date.
 - Three sheets with maps at a scale of 1:63, 360, showing stream drainages and prominent landmarks in Tps. 1, 2, and 3 N., R. 69 W., Boulder County, Colorado. Each sheet is labeled "From Maxwell & Oliver, Boulder" No date.

Published as: U.S. Geological Survey. Monograph 27. 1896.

INVESTIGATION OF ARTESIAN WELLS IN COLORADO. 1886-1890.

- NO-12279 G.H. Eldridge. Notebook with notes and sketches related to field investigation of artesian wells in the Denver, Colorado, area. Also included are tables of data for individual wells, 15 draft text pages entitled "General Remarks and Conclusions", and miscellaneous correspondence. 1886-1890.
- NO-08973 Typed copy of a 13-page report entitled "Memoranda Regarding the History of Artesian Well Boring in Colorado", by George H. Eldridge. The report covers the period 1870-1888, and mentions wells in these locales: Kit Carson, Denver, Pueblo, Canon City, Greeley, Fort Lyon, Akron, Cheyenne Wells, San Luis Valley, and Montrose. Circa 1890.
- NO-12280 G.H. Eldridge. Notebook with geologic notes related to field investigation of artesian wells in the Denver, Colorado area. Data on individual wells. No date.
- NO-12281 G.H. Eldridge. Notebook with geologic notes related to field investigation of artesian wells in the Denver, Colorado area. Data on individual wells. No date.

GEOLOGY OF THE FLORENCE OIL FIELD, COLORADO. 1892.

- NO-12282 G.H. Eldridge. Notebook with geologic notes and sketches related to field investigations in the Florence Oil Field, Colorado. October, 1892. Also included are five pages of notes by an unknown hand dated August 16, 1908.

GEOLOGY AND COAL RESOURCES OF WYOMING, MONTANA, IDAHO, AND SOUTH DAKOTA. 1893-1894.

- NO-12283 G.H. Eldridge. Notebook with geologic notes and sketches related to miscellaneous geologic investigations in northeastern Wyoming and southern Montana. 1893. Also included are:
- Five annotated, pasted-in map fragments, including a topographic map of the Bighorn Mountains, three sections of a regional map of Wyoming and Montana, and a map showing rail lines in northeastern Wyoming and adjacent South Dakota and Nebraska.
 - Two-page letter from F.H. Knowlton, Assistant Curator, Smithsonian Institution, to G.H. Eldridge, with Knowlton's interpretation of plant fossil specimens from the Clark Fork River area, Montana. 1894.
 - Sample analysis report from the USGS Division of Geochemistry for Sample 1443, Rocky Mountains. 1894.

- NO-12284 G.H. Eldridge. Notebook with geologic notes and sketches and sample analysis data related to coal resource investigations in Wyoming and Montana. 1893.
- NO-12285 Envelope with group of notes related mining in Idaho. Included are typed descriptions of various mining operations, statistics for statewide production of various commodities in the 1880-1890 period, and miscellaneous notes on geology and stratigraphy. 1894.

GEOLOGIC INVESTIGATIONS IN IDAHO. CIRCA 1894-1896.

- NO-12286 Envelope with four sheets of microscopic thin section descriptions related to Eldridge's geologic reconnaissance activities in Idaho. All samples described are from the Boise 30' quadrangle. Variously marked 1894 and 1896.

Published as: U.S. Geological Survey. Sixteenth annual report. Part II. 1896.

GEOLOGIC INVESTIGATION OF COAL FIELDS IN THE DENVER, COLORADO AREA. 1895.

- NO-12287 G.H. Eldridge. Notebook with geologic notes and sketches and stratigraphic section data related to field investigation of coal fields in the Denver area. Locales mentioned include Bear Creek, Boulder, Coal Creek, Dry Creek, Erie, Golden, Platte River, Ralston Creek, South Boulder Creek, and Turkey Creek. Also included are tables of survey station, fossil, and railroad distance data. 1895.
- NO-12288 Envelope with six sheets of geologic notes and sketches related to field investigation of coal fields in the Denver area. Removed from pocket of notebook NO-12287. 1895.

GEOLOGIC INVESTIGATION OF UINTAITE (GILSONITE) DEPOSITS IN UTAH. 1895-1896.

- NO-12289 Envelope with six items:
- Copy of the East Tavaputs 1-degree quadrangle, Utah-Colorado.
 - Township and range grid map for western Colorado and eastern Utah, with annotations showing railroad alignments, drainages, and geology.
 - Two fragments of a geologic map of east-central Utah and west-central Colorado, showing the Book Cliffs and Grand (Colorado) River areas.
 - Map of northeastern Utah and northwestern Colorado, showing the Uintah Indian Reservation, Roan and White River Plateaus, and the Yampa and White River drainages.
 - Tracing-paper overlay of a map of east-central Utah and west-central Colorado, showing place names.

Published as: U.S. Geological Survey. 17th Annual Report. 1896.

**GEOLOGIC INVESTIGATION OF THE SANTA CLARA VALLEY,
PUENTE HILLS, AND LOS ANGELES OIL DISTRICTS, CALIFORNIA.
1902.**

NO-12290 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigations in the Anaheim, Corona, and Pomona 15' quadrangles, California. Also included are four annotated, pasted-in sections of the Anaheim 15' quadrangle. 1902.

NO-12291 G.H. Eldridge. Field notebook with geologic notes and sketches related to field investigations in the Anaheim, Corona, Downey, Pasadena, and Pomona 15' quadrangles, California. Also included is an annotated, pasted-in map composed of adjacent sections of the Anaheim, Downey, Pasadena, and Pomona 15' quadrangles. 1902.

Published as: U.S. Geological Survey. Bulletin 309. 1907.

**GEOLOGY OF THE SALINAS VALLEY AND DELIMITING RANGES,
MONTEREY COUNTY, CALIFORNIA. NO DATE.**

NO-12292 Envelope with typed, annotated copy of a 46-page report entitled "Geology of the Salinas Valley and delimiting ranges from the Arroyo Seco to Paso Robles", by Geo. H. Eldridge. Also included are six 5 x 7-inch black and white landscape photographs apparently intended to illustrate the text. No date.