



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

CHARLES W. HAYES
(1859 - 1916)

NOTES, CORRESPONDENCE, PAPERS

1888 - 1905

(0.3 linear ft. and 2 map folders)

Charles Willard Hayes was born in Granville, Ohio, in 1859. He received an A.B. from Oberlin College in 1883 and a Ph.D. from Johns Hopkins University in 1887. Hayes joined the staff of the USGS in 1887 and remained with the agency for 28 years. His project work included the geologic mapping of 16 quadrangles in the southern Appalachian region, exploration of the Yukon and Copper Rivers in Alaska, and evaluations of economic mineral potential in Cuba, Mexico, and Central America and the oil and gas resources of Texas and Louisiana. He also served as head of the Section of Non-metalliferous Resources and Chief Geologist. In 1911 Hayes resigned from the USGS to pursue petroleum exploration projects in Mexico.

INVENTORY

By

Carol A. Edwards and Clay M. Martin
U.S. Geological Survey Field Records Collection
MS 914, Box 25046, Federal Center
Denver, CO 80225-0046
July 2002/May 2010

Location of Field Notebooks: CS 9-8

**GEOLOGY OF THE DALTON 30' QUADRANGLE, GEORGIA.
1888-1896.**

<u>Item Number</u>	<u>Description</u>
NO-09144	Expandable envelope with: <ul style="list-style-type: none">- Typed manuscript entitled "Preliminary notes on the Geology of North West Georgia" by C.W. Hayes, dated 1888, that includes a sheet with a hand-drawn stratigraphic column and five geologic cross sections.- Manuscript monthly report for June 1890 by Hayes, addressed to Bailey Willis, June 30, 1890.- Manuscript draft entitled "Geology, Stratigraphy". 1891.- Manuscript draft entitled "Topography of the Dalton quadrangle". This report was apparently not published. 1891.
MA-02012	Map folder with 18 items: <ul style="list-style-type: none">- Three geologic cross section diagrams (labeled A, B and C) across the Dalton 30' quadrangle.- One copy of the Cleveland 30' quadrangle, Tennessee, with annotations.- Geologic map of a portion of the Dalton 30' quadrangle, including the towns of Dunn, Woodlawn, and Loughridge, Georgia.- Draft legend for a geologic map of the Dalton 30' quadrangle.- Columnar section diagram for a geologic map of the Dalton 30' quadrangle.- Linen "overlay" for Dalton 30' quadrangle, labeled "Showing Location of Specimens", initialed by "AHB" (Alfred H. Brooks), December 1896.- Seven enlarged reproductions of portions of the Dalton 30' quadrangle, mounted on linen, with annotations.- Three copies (1 mounted on linen) of the Dalton 30' quadrangle, with geologic annotations.

**GEOLOGY OF THE CARTERSVILLE 30' QUADRANGLE, GEORGIA.
1890-1905.**

NO-09145	Expandable envelope with: <ul style="list-style-type: none">- Draft text and outline of a report on the Cartersville 30' quadrangle. No date.- Draft text entitled "Description of the Cartersville quadrangle". No date.- Handwritten draft entitled "Geology, Stratigraphy". 1891.- Handwritten draft entitled "Topography of the Cartersville quadrangle". 1891.- One page of notes on the copper mine at Canton, Georgia, taken while "on reconnaissance from Dahlonega to Cartersville", by C.W. Hayes and D.B. Sterrett". 1905.
MA-02013	Map folder with 30 items: <ul style="list-style-type: none">- Three geologic cross section diagrams (labeled A, B and C) across the

- Cartersville 30' quadrangle.
- Geologic sketch map of Bartow County, Georgia by Robert H. Couper (scale 1:125,000) showing brown iron ore, manganese, and yellow ocher mines and other features, with an accompanying letter from Couper to Charles D. Walcott, USGS Director, dated August 27, 1900.
 - Six portions of the Cartersville 30' quadrangle, with annotations.
 - Single-sheet "overlay" with notes for Bartow County portion of the Cartersville 30' quadrangle.
 - Sheet with sections A, B, and C, labeled "showing geologic structure of the Cartersville district" by C.W. Hayes.
 - Hand-drawn diagram labeled "Columnar Section (Cartersville) Unaltered Sedimentary Rocks".
 - Geologic map of the Cartersville mining district.
 - Enlarged copy of Cartersville Special Map (original scale 1:62500 enlarged to 1:44,936) showing Cartersville mining district with geology added in southern portion, labeled "Geology by Laurence LaForge, March 1, 1904".
 - Smaller copy of Cartersville Special Map, with geology added.
 - Copy of the Cartersville 30' quadrangle with Cartersville mining district outlined and geology added.
 - Copy of the Cartersville 30' quadrangle with geology added, labeled "Geology by C. Willard Hayes, Assisted by M.R. Campbell and A.H. Brooks, Surveyed in 1890, 1895".
 - Two copies of the Cartersville 30' quadrangle with geology added in central portion of map.
 - Copy of the Cartersville 30' quadrangle, labeled "Economic Geology", with geology, ore deposits, and mine locations added.
 - Two copies of the Cartersville 30' quadrangle, labeled "Routes Traveled by Laurence LaForge in 1903-1905", and "Locations of Specimens collected by L. LaForge".
 - Copy of the Cartersville 30' quadrangle indicating locations of geologic cross sections A, B, and C.
 - Copy of the Cartersville 30' quadrangle with location of graphite mine added between Allatoona and Emerson in south-central portion.
 - Two copies of the Cartersville 30' quadrangle, mounted on linen, with geologic annotations.
 - Map entitled "Geologic Survey Map of Bartow County, George Little, State Geologist, scale 1 inch = 5 miles".
 - Linen overlay for the Cartersville 30' quadrangle, labeled "Showing Location of Specimens" by A.H. Brooks, Nov. 1896.
 - Copy of the Cartersville 30' quadrangle with geology added.
 - Copy of the Cartersville 30' quadrangle, mounted on linen, with annotations.
 - Enlarged, linen mounted copy of the Cartersville Special Map with geology added in northern portion.
 - Copy of the Cartersville 30' quadrangle with annotations showing station locations and sample locations.

Published as: U.S. Geological Survey. Bulletin 213. 1903.

**GEOLOGY OF THE MARIETTA 30' QUADRANGLE, GEORGIA.
1897-1901.**

- NO-09143 Expandable envelope with:
- Letter from C.R. Van Hise to G.W. Stose, dated May 29, 1901, with a discussion of questions about the Marietta quadrangle text.
 - Typed and handwritten copies of a draft manuscript entitled "Description of the Marietta quadrangle" by C.W. Hayes. No date.
 - Handwritten draft manuscript entitled "Geology, Stratigraphy." Apparently the report was not published. 1897.

**GEOLOGIC RECONNAISSANCE IN COLORADO, UTAH, AND IDAHO.
1903.**

- NO-11602 Field notebook with geologic notes and sketches made on a trip to Larimer, Moffat, and Routt Counties, Colorado; Kootenai and Shoshone Counties, Idaho; Rich County, Utah; and Carbon, Sweetwater, and Uinta Counties, Wyoming. 1903.