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ERNEST FRANCIS BURCHARD

(1875-1961)

NOTES, CORRESPONDENCE, PAPERS

1905 - 1946

(1.75 linear ft. and 2 map folders)

INVENTORY

by

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U.S. Geological Survey Field Records Library

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Location of Field Notebooks CS 22-9

CHROME AND MANGANESE ORES IN CUBA. 1918.

<u>Item Number</u>	<u>Description</u>
NO-08237	Notes by E.F. Burchard and E.L. (Edward Leroy) Jones, including geologic notes, notes on mine workings, data on specific mines, and sketches.

IRON ORE IN VENEZUELA. 1929.

NO-08228	Materials include diary and geologic notes regarding Pao iron ore deposit, 90 miles east of Ciudad Bolivar. There is a general report of examination, estimate of ore deposits, drill records, sample analyses, map of Pao iron ore claims, notes on properties of specimens, notes on geophysical prospecting, and lists of photographs taken. There are also notes by 'A.C.S.', notes by L. Seaman, B. Steel Co., May 1928; production and royalty estimates; typed excerpts from "The Geology of Venezuela and Trinidad" by Ralph Liddle (no date).
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NOTES ON BAUXITE IN ALABAMA, ARKANSAS, AND MISSISSIPPI. 1922-1942.

NO-08225	Notebook. Geologic notes on examinations of bauxite deposits and outcrops; other general notes; excerpts from several publications relating to bauxite; Outline for Bauxite Field Reports suggested by W.H. Monroe, 4/3/42. Also includes a few photographs attached to sheets with accompanying notes. Areas covered are in Colbert County, Alabama; Pulaski and Saline Counties, Arkansas; Calhoun, Kemper, Noxubee, Oktibbeha, Ponotoc, Tippah, Tishomingo, Union, Webster, Winston, and Yazoo Counties, Mississippi. See also the index sheet in front of the notes.
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BUILDING STONE IN VARIOUS AREAS OF THE UNITED STATES. 1908-1914.

NO-08235	Geologic notes, sketches, a few photos, and notes on quarries, regarding building stone in localities in these states: Alabama, Arizona, Colorado, Connecticut, Illinois, Kansas, Louisiana, Maine, Maryland, Massachusetts, Montana, Nebraska, Nevada, New Mexico, Oklahoma, Oregon, South Dakota, Tennessee, Texas, Vermont, Washington State, and Wyoming. See the index sheets in front of the notes for specific localities. There are also miscellaneous notes; index to tests made at Watertown Arsenal on granites, marbles, and other building stone; and notes on proposed tests.
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**FLUORSPAR IN CERTAIN AREAS OF THE UNITED STATES.
1908-1929.**

- NO-08238 Notebook with geologic notes, a few sketches, and notes on fluorspar mining activities in certain areas in these states: Arizona, California, Colorado, Florida, Idaho, Illinois, Kentucky, Nevada, New Hampshire, New Mexico, New York, Utah, and Washington State. See the index sheet in front of the notes for specific localities.
- There are also a few notes by G.F. Loughlin; excerpts from letters from companies, from published materials, a few newspaper clippings; notes by or copied from J.B. Umpleby (1913) and C.P. Ross (1929). Six map pieces are attached to notebook pages.

**IRON ORE DEPOSITS IN MISIONES TERRITORY,
ARGENTINA. 1925.**

- NO-08236 Includes notes on the trip and on visits to these areas: San Ignacio, Santa Ana, San Javier, Bompland, San José, Apostoles, Maria Antonia, Loreto, La Plantadora, Concepcion, Tinogasta. Also, geologic notes, notes on drill holes, sample analyses, a few sketches, lists of photos taken, notes on geology of south Brazil, notes on "Tacuru" rock. See the Contents sheet at the beginning of the notes.

IRON ORE DEPOSITS IN MINAS GERAIS, BRAZIL. 1925.

- NO-08224 General notes on a trip to the Itabira region and other areas, and on examinations of various iron ore deposits.

**IRON ORE DEPOSITS IN AREAS OF ALABAMA, GEORGIA, AND
TENNESSEE. 1906-1946.**

- NO-08191 Burchard, E.F. Southern iron ores. Book II. July 31 to Sept. 5, 1906. Note inside front cover says "No field work between Sept. 5/06 and Nov. 9/06 on account of typhoid fever..." Index at the beginning of the notes. Includes geologic notes on mines, prospects, and districts in Alabama and Tennessee, including the Birmingham district.
- NO-08192 Russellville, Alabama. No date. Tonnage data for deposits in the area of Russellville, Franklin County, Alabama.
- NO-08193 Burchard, E.F. Iron Ore. 1908-1909. Tennessee, Alabama, Georgia. Typed

pages by D.F. Hewett, 1908, "Notes on iron ores near Rising Fawn and Trenton, Georgia, and Battelle, Alabama." Also, Field Notes, Tennessee-Northeast Alabama – Clinton ore. 1908-1909. Includes geologic notes and sketches. Etowah and DeKalb Counties, Alabama; Dade County, Georgia; and Roane County, Tennessee. Also, Estimates of tonnage: Clinton Iron Ores in Alabama, Georgia, Tennessee, New York, Kentucky, Missouri; Brown Iron Ores in Alabama, Texas. There are also estimates for Virginia.

- NO-08194 Burchard, E.F. Iron Ore. Tennessee River Basin Estimate Data (no geology). No date. Estimates from sites in Alabama, Georgia, Tennessee, and Virginia.
- NO-08195 Burchard, E.F. Field notes, Birmingham. 1908-1909. Geologic notes, analytical data, sketches, drill hole data, general notes, tonnage estimates, production data, relating to iron ores and mines for areas in north-central Alabama, including the Birmingham district plus areas in Bibb, Blount, Jefferson, and Tuscaloosa Counties, Alabama.
- NO-08196 Red Iron Ores. Northeastern Alabama. Notes by E.F. Burchard; a few notes by J.R. Ryan. 1911, 1913, 1916, 1928, 1939, 1942, 1946. Notes on Red Mountain ore outcrops, analyses data, geologic notes, general notes, for various areas in Cullman, Gadsden, Ft. Payne, Scottsboro, Springville, and Stevenson quadrangles. Blount, DeKalb, Etowah, Jackson, and Marshall Counties. Includes notes from Jan. 2-11, 1939 at Guntersville Reservoir site in area to be flooded above Guntersville Dam. General, geologic, and section notes.
- NO-08197 Georgia. Iron ores. 1911, 1913, 1915. Index at the beginning of notes. Notes by A.M. Grahame. N.W. Georgia. Provisional estimates. Georgia notes, Clinton Iron ores, by E.F. Burchard. Geologic and stratigraphic notes in Ringgold, Rome, and Stevenson quadrangles. Catoosa, Chattanooga, Dade, Gordon, Polk, Walker, and Whitefield Counties, Georgia.
- NO-08239 Field Notes. Red Iron Ore. Tennessee. 1911-1915. Geologic notes, sketches, notes of samples and fossils taken, notes on various deposits and mines in east Tennessee, are organized by quadrangle:
- Briceville - includes "Notes on Clinton Ore Deposits near Clinton, Tenn." By C.H. Gordon; notes by J.R. Ryan;
 - Chattanooga - includes notes by J.R. Ryan;
 - Cleveland;
 - Cumberland Gap - includes section of quadrangle map showing iron ore outcrop;
 - Jonesville - includes notes by J.R. Ryan;
 - Kingston - includes notes on picking tables at the blast furnace plant of the Roane Iron Company; analyses of ores from mines that supply the Roane Iron Co. furnaces;
 - Pikeville;
 - Knoxville;

- Loudon;
- Maynardsville - includes excerpts from “Report on the Iron Ore Deposits of the Rockwood Formation in Union County, Tennessee” by Jas. W. Love, Univ. of Tenn., Feb. 1912; notes by J.R. Ryan; part of a quadrangle map showing iron ore outcrops;
- Morristown – includes notes by J.R. Ryan;
- Sewanee.

NO-08240 On front pages: Brown iron ore, Western Highland Rim. Tennessee. West-middle Tennessee. Counties from north to south: Stewart, Montgomery, Dickson, Humphreys, Hickman, Lewis, Wayne, Lawrence, Hardin, McNairy. General and geologic notes, notes on mining activity and furnaces, a few sketches; notes arranged by county. The sections for Stewart, Montgomery, and Dickson Counties include an index of properties. Includes notes by C.C. Anderson (Stewart, Montgomery, and Dickson counties). The first sheet for Hickman County says “Notes on Brown Iron Ore. Western Highland Rim, Tennessee. Oct.-Nov. 1921 and Spring 1923. Hickman County.” Includes county property index, photos attached to sheets with notes; short list of sample analyses; notes by R.W. Smith; tonnage data; estimates of ore. Lewis County material includes notes, photos by R.W. Smith of Pinckney and Wright mine. Hardin County materials includes excerpts from notes by Dr. W.B. Jewell on iron ore deposits in Hardin County. Miscellaneous notes include: summary of altitude of brown iron ore deposits; mine property index to Waynesboro quadrangle; revised brown iron ore estimates; ore production estimates; other miscellaneous and random notes.

NO-08241 Perry and Lewis Counties, Tennessee. Manganiferous Iron Ore Notes. 1937-1938. Filed in order of quadrangles: Graves, Spring, Linden, Leatherwood, Kimmins, Chestnut Grove, Lobelville, Daniels Landing, Pineview, and Pope.

MA-01716 Field map Gadsen Sheet, Alabama and Fort Payne Quadrangle, Alabama and Georgia.

Published as: U.S. Geological Survey. Bulletin 380. 1909.

Published as: U.S. Geological Survey. Bulletin 400. 1910.

Published as: U.S. Geological Survey. Bulletin 540. 1924.

Published as: U.S. Geological Survey. Bulletin 795. 1927.

Published as: U.S. Geological Survey. Bulletin 928-D. 1943.

IRON ORES IN AREAS OF LOUISIANA, MISSISSIPPI, AND TEXAS. 1914-1934.

- NO-08200 See also the index sheet at the beginning of the notebook.
Texas: miscellaneous notes; notes from publications on iron ores; a few notes on East Texas iron forges and blast furnaces, and iron ores. Notes on northeast Texas iron ores in these counties: Anderson, Cass, Cherokee, Harrison, Henderson, Marion, and Morris. Includes general notes, geologic notes, section notes, a few sketches, notes on blast furnaces. 1914, 1930, 1934.
Also, notes on iron ores in Bossier, Caddo, and Webster Parishes, Louisiana. Includes general notes, geologic and section notes. 1914.
Also, notes on iron ores and blast furnaces in Hickory Flat and Winborn areas, Benton County, Mississippi. 1915.

IRON ORES IN NEW YORK. 1942-1943.

- NO-08199 This project includes fourteen pages of general and geologic notes and a few sketches, concerning iron ore deposits and/or mines in these areas of Herkimer County: Old Forge, Salisbury, Tailor Lake, and Thendara. There is also a list of photographs. October-November 1942, 1943.

IRON ORES IN VIRGINIA. 1914-1928.

- NO-08198 S.W. Virginia. Clinton Iron Ore. 1914. Includes mine notes, geologic notes relating to Boons Path Iron Company, Lee County, Virginia (Jonesville quadrangle). Also, other notes on Lee County, Virginia iron ore. Also, two sheets of typed information from a report by C.M. Weld, "Iron Ore Near Covington, VA., 4/5/26." Notes on iron ore deposits examined May-June 1927, and including mines, in these counties: Alleghany, Botetourt, Craig, Bland, Carroll, Pulaski, Washington, Wise, and Wythe. Notes are interspersed with pages having portions of quadrangle maps attached, with annotations on accuracy of topography, mine locations, transportation routes, other information.

IRON ORES IN WASHINGTON STATE. 1940-1943.

- NO-08201 Notebook. 1940-1943. This notebook has notes on iron ores in these Washington counties: Chelan, Kittitas, Okanogan, Skagit, Snohomish, Whatcom. Materials include general notes, geologic notes, notes on prospects, a few sketches, analytical data. Includes notes on bog iron ore near Lynden (Whatcom County), by Charles Morgan. There is also a record of packages shipped and of sample iron ores sent for analysis, from California, Nevada, Oregon, and Washington, 1940-1941 (no geology).

LEAD AND ZINC DEPOSITS OF NORTHERN ARKANSAS. 1905-1927.

- NO-08242 Notebook. Burchard. Yellville, Ark. Sept.-Oct. 1905. Notes of traverses, mostly with E.O. Ulrich, in the Yellville quadrangle. Boone, Marion, Newton, and Searcy Counties, Arkansas. Includes geologic and stratigraphic notes, sketches, notes on mines, station location.
- NO-08243 Field notebook sheets. Arkansas. 1916. Notes on lead and zinc in Yellville and Mountain Home quadrangles. Boone, Marion, Newton, and Searcy Counties, Arkansas. Geologic notes, sketches, notes on mining and milling activities, station locations. Miscellaneous notes; list of photos taken. Pasted in is text on northern Arkansas and other areas from Mineral Resources (1907-1915).
- NO-08244 Field notebook sheets. North Arkansas. 1916 & 1927. Notes on lead and zinc. Typewritten copy of NO-8243, plus supplementary notes from 1927. There is a list of mines in the front of this group of sheets. Near the end of the group are notes on Waco, Missouri-Kansas zinc field of the Missouri-Kansas Mining Company. There are also lists of lead and zinc ores with the chemical formula for each one.
- MA-01719 Map folder with the Yellville 30' quadrangle, Arkansas-Missouri, showing traverses and station locations.

LIMESTONE IN CERTAIN AREAS OF THE UNITED STATES. 1909-1928.

- NO-08234 Notebook with notes on lime, limestone, and limestone quarries in these states: Georgia, Illinois, Maryland, Pennsylvania, Texas, Utah, Virginia, and Wyoming, by E.F. Burchard and W.E. Emley. There are also notes on cement materials in Alabama, Colorado, Illinois, Texas, and Utah; notes on potash from cement manufacture; notes on Puzzolan cement. See index sheet in front of the notes.

NOTES ON NATIONAL FORESTS IN ALABAMA. 1937.

- NO-08227 Notes taken in Oakmulga and Talladega divisions of the Talladega National Forest, at localities and traverses in Tuscaloosa, Hale, Bibb, Shelby, Chilton, Dallas, Clay, Calhoun, Cleburne, and Talladega Counties. Also, notes taken in Natural Bridge and Delmar areas, Black Warrior National Forest, Winston County. Notes include observations on geology, forest vegetation, mines and quarries, and "Random Notes." See also index sheet in front of notebook.

GEOLOGIC NOTES ON PETROLEUM IN THE PHILIPPINE ISLANDS. 1918-1922.

- NO-08226 Materials include:
- typed excerpt from “Searching for Oil in the Philippines” from *American Chamber of Commerce Journal* (Nov. 1922);
 - Geologic Notes – Cotabato District. Mindinao I. March-April 1920. Includes index sheet, mapping and traverse notes, geologic notes;
 - Geologic Notes – Cotabato District. Mindinao II. July-August 1920. Includes index sheet, mapping and traverse notes, geologic notes;
 - Handwritten copy of report on “Petroleum Possibilities of the Pidatan District, Mindinao” by E.S. Sheffield, dated April 11, 1918;
 - Geologic Notes. Bondoc Peninsula. Tayabas Province, May-June 1920. Includes resumé of reconnaissance, geologic notes, list of photographs.
 - There are also notes taken in the vicinity of Baliti and Villaba, Leyte; notes on bituminous limestone, and on petroleum; plus, additional lists of photographs.

FIELD INVESTIGATIONS OF STRUCTURAL MATERIALS, EASTERN AND CENTRAL UNITED STATES. 1907-1911.

- NO-08229 Structural materials I. April 1907 to January 1908. Notes of work in areas of Kentucky, Missouri, Illinois, Indiana, Wisconsin, and Kansas. See contents by pages in front of notebook. There is also a list of photos taken in April 1907 at the Jamestown Exposition. Material includes geologic notes; sample analyses; notes on mines, pits, quarries, mills, and plants; notes of photos taken; clippings of listings of structural materials commercial companies.
- NO-08230 Structural Materials II. January 1908 – April 1908. Notes of work in areas of Kansas, Texas, and Oklahoma. See Contents by pages in front of notebook. Material includes geologic notes, notes on mines and quarries, mills, and plants at various localities. There are also notes of photos taken, and sample notes and sample analyses.
- NO-08231 Notes on structural materials in the vicinity of cities where Federal Buildings had been authorized. 1909-1910. “Book I” There is an index sheet in front, as well as an index sheet prepared later showing area, county, and state. Materials include notes of work in Arkansas, Illinois, Iowa, Kansas, Maryland, Michigan, and Oklahoma arranged by state. Includes general notes, Structural Materials Survey forms data, geologic notes, and sketches. Also, “Notes on Rocks near Great Falls of the Potomac River, available for masonry, Dec. 1910-Jan. 1911.”
- NO-08232 “Structural Materials in Vicinity of Cities Where Federal Buildings Had Been Authorized. Index. Book 2.” There is also an index sheet prepared later showing

area, county, and state. These notes of work in Minnesota, Missouri, North Dakota, South Dakota, Texas, Alabama, and Wisconsin are arranged by state. Includes general notes, Structural Materials Survey form data, sample analyses, geologic notes and sketches.

Published as: U.S. Geological Survey. Bulletin 340-H. 1908.

Published as: U.S. Geological Survey. Bulletin 430-F. 1909.

**NOTES IN THE WOODSTOCK IRON DISTRICT,
BIBB COUNTY, ALABAMA. 1934.**

NO-08940 Envelope with 5 pages of notes: north, east, and south of McCalla; hills south of McAdory; and in the Bessemer quadrangle, West End Mountain. May 9-14, 1934.

**NOTES ON MINERALS OF ECONOMIC VALUE TO
MANUFACTURERS. 1907-1916.**

NO-08233 Geologic notes and sketches on deposits for the following: barite, glass sand, graphite, gypsum and mineral paints.