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## U.S. GEOLOGICAL SURVEY FIELD RECORDS LIBRARY DENVER, COLORADO

### BERT SYLVENUS BUTLER

(1877- 1960)

NOTES, CORRESPONDENCE, PAPERS

(1907 - 1925)

(3.2 linear feet, 29 map folders and 1 map roll)

Burt Sylvanus Butler was born in Gainesville, New York in 1877. He earned degrees at Cornell University before joining the staff of the U.S. Geological Survey in 1907, where he conducted geologic studies in Arizona, Utah, Colorado, and Michigan. Although he left the Survey in 1920, Butler continued to contribute to U.S.G.S. publications throughout his career. Butler became a faculty member of the University of Arizona in 1927 and was appointed head of the geology department in 1931, a position which he held until his retirement in 1948. The Bert Butler Scholarship for graduate students in geology continues his legacy at the University. In 1928 Butler was made an honorary Doctor of Science by the Colorado School of Mines, and in 1947 he was awarded the Penrose Medal by the Society of Economic Geologists for his contributions to the knowledge of metallic ore deposits.

INVENTORY

by

Clay M. Martin

U.S. Geological Survey Field Records Library

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March 2008

Location of Field Notebooks: CS 23-4 through 5.

## MINERAL RESOURCES OF UTAH. 1908-1912.

<u>Item Number</u>	<u>Description</u>
NO-10458	Geologic notes on mines in the Cottonwood and Park City Quadrangles, including the Columbus Extension, Columbus Consolidated, Alta Consolidated, Flagstaff, Michigan-Utah, and South Hecla Mines.
NO-10459	Geologic notes on ore deposits in the Snake Creek and Cottonwood Districts of Wasatch County, including the Frederick Tunnel, Superior Tunnel, White Pine, Gladstone, Peruvian Gulch, Cottonwood Atlantis, Cabin, Alaskan, Geneva and Oxford, Columbus Extension, South Hecla, Columbus, Prince of Wales, and Alta Consolidated mines.
NO-10460	Geologic notes on ore deposits in the Snake Creek and Cottonwood Districts of Wasatch County, including the Superior, Extension, Flagstaff, Burgess, Buffalo, Cabin, and Phoenix Tunnels, Toledo Fissure, Star Fault, Columbus Consolidated, Richmond & Theresa, Prince of Wales, and Silver Fork mines. Specimen data in back of notebook.
NO-10461	Geologic notes on mines in the Cottonwood and American Fork Districts, including the Michigan-Utah, City Rocks, Alta Consolidated, Wood Lawn, Davenport, Mountain Lake, Pittsburg, South Hecla, and Peruvian Gulch Mines.
NO-10462	Geologic notes on the Cottonwood and American Fork Districts, including the Mineral Flat, Silver Copper, Water Fall, Pittsburg, Pacific, Brusha, Bay, Alice Tunnel, Dutchman, Bay State, Miller, Earl-Eagle, and Belorophan Mines.
NO-10464	Geologic notes on the Cottonwood and American Fork Districts, including the Baker, Big Cottonwood, Monarch, Maxfield, Dolly Varden, Sunnyside Tunnel, Confidence, Watrous Tunnel, Big Cottonwood Bonanza, Gipsy Blair, Silver Blair, Rexall, Reade & Benson, Branberg, Kennebec Tunnel, Howell (Baby MacKee), Last Chance, Prince, Cardiff, Reeds Peak, Big Cottonwood Consolidated, Dog Lake Deposit, Big Cottonwood Coalition, Evergreen, Michigan-Utah, Iowa Copper, and Giles Mines. Also includes notes on coral beds in the Webster Formation and notes by F.F. Hintze.
NO-10465	Geologic notes on the Big and Little Cottonwood Districts, including the Emma, Cabin, Cardiff, Howell Tunnel, Price, Tar Baby, Copper Butte, Wilson Group, Iron Cap Mountain, and Deertrail Mines.
NO-10467	Geologic notes on mines in the Frisco and Star Districts, including the Red Warrior, Lady Bryan, Wild Bill, White Rock, and San Francisco Mines.
NO-10468	Geologic notes on mines in the San Francisco District, including the Golden Reef, Carbonate, Peacock, Cupric, Horn Silver, Kind David, and Imperial Mines.

- NO-10469 Geologic notes on mines in the San Francisco District, including the Hickory, Big Wash Creek, Moscow, Old Hickory, Red Warrior, Beaver, Harrison, O.K., and Cave Mines.
- NO-10470 Geologic notes on specimens from mines in the Frisco District, including the Frisco Contact, Indian Grave Peak, Carbonate, Horn Silver, Morehouse Canyon, Baltimore, Cupric (Iron Devil), Indian Queen, and Cactus Mines.
- NO-10471 Notes on specimens from mines in the Beaver Lake and Star Districts, including the Hickory, Old Hickory, Rebel, Harrington, Harrington-Hickory, and O.K. Mines.
- NO-10472 Geologic notes on copper deposits in the San Francisco Region, Beaver Lake Mountains area, including the Copper Mountain, Utah United, and Rocky Range deposits.
- NO-10473 Geologic notes on specimens from mines in the San Francisco and adjacent areas, Beaver County, including the Mowitza, Lydia, Harrington, Wild Bill, Cedar-Talisman, Lady Bryan, Bub, St. Marys, Moscow, Red Warrior, Mammoth, and Progressive Mines.
- NO-10474 Geologic notes on mines in the Gold Springs-Stateline area, including the Desert Wonder, Modena, Gold Springs, Deer Lodge Group, and Homestake Mines. History of the State Line and other notes in pocket.
- NO-10475 Geologic notes on mines in the Marysvale area, Ohio, Mt. Baldy, and Gold Mountain Districts, including the Bully Boy, Bradburn, Dalton, Cascade, Shamrock, Cottonwood Canyon, Clyde, Crystal, Sevier, Ten Mile Canyon, Krotki, and Deer Trail Mines.
- NO-10476 Notes on Beaver, Utah, names and addresses.
- NO-10477 Silver Reef and St. George, Utah: notes on specimens from mines.
- NO-10478 Geologic notes on the Wa Wa (Wah Wah) Range, Utah, including maps of Sevier, Erickson, Henry Mt., San Rafael, and Lower Cottonwood.
- NO-10479 Geologic notes on mines in the Frisco District.
- NO-10480 Geologic notes and maps of mines in the Mineral Range.
- NO-10481 Geologic notes on ore specimens from the Bingham District, Salt Lake County.
- NO-10482 Geologic notes on specimens from Granite, Dugway, and Fish Springs.
- NO-10483 Geologic notes on specimens from the Park Valley, Lucine, and Detroit Districts.

- NO-10484 Geologic notes on specimens from Deep Creek and Silver Islet.
- NO-10485 Geologic notes on ore deposits in the Stockton, Ophir, and Mercur Districts, including the Ben Harrison (New Stockton Co.), Galena King, Dry Canyon (Hidden Treasure), Ophir Hill, and Cliff Mines.
- NO-10487 Geologic notes on ore deposits in the Uinta, Lower Green River, La Sal, Henry Mountains, White Canyon, and Paria areas of eastern and southern Utah, including the Woodside, Duyer (Dyer?), Brown Park, Fine Gold Placer, Big Indian, Lisbon, Salt Valley, Temple Rock, Cuprum, Bromide, Baby Ruth, Dolly Varden, Blue Dike, and Gold Coin Placer mines. Also included are geologic notes on the Carolina (sic) and Augusta Bridges of Natural Bridges National Monument.
- NO-10488 Geologic notes on ore deposits in southeastern Utah, including the Gibbons, Hicks, Crescent Creek, Delmont, Lida, Mt. Hillers, Hoxie Creek, and Pine Alcove Creek areas of the Henry Mountains region; the Fruita, Caineville, Grand Wash, Torrey, Boulder Mt., Circle Cliffs, Silver Falls, Escalante River, Burr Trail, Orange Cliffs, and Laterite Canyon areas in Wayne and Garfield Counties; and the Dolly Varden and Blue Dike mines in the Abajo Mountains of San Juan County.
- NO-10489 Geologic notes on ore deposits of the Lakeview Mining Company, Box Elder County, including the Promontory District and Grouse Creek Range area.
- MA-02685 Map folder with:
- 4 paper maps of the Tooele Valley, Sevier Desert, Henry Mountains, and San Rafael quadrangles, with geologic annotations.
  - 1 blueprint map of the Dugway Mining District.
  - 1 paper map of the Wah Wah and San Francisco Mountain ranges.
  - 2 large paper maps of adjoining areas of the Stockton and Tooele Valley quadrangles, showing the Oquirrh Mountains and the Ophir and Mercur Mining Districts.
- RM-00008 One large, rolled, cloth-backed map by C.E. Dutton showing structure sections through the high plateaus of Utah.

Published as: U.S. Geological Survey. Professional Paper 80. 1913.

Published as: U.S. Geological Survey. Professional Paper 111.1929.

Published as: U.S. Geological Survey. Professional Paper 201. 1943.

## **COPPER RESOURCES OF THE WESTERN UNITED STATES. 1910-1912.**

- NO-10463 Geologic notes on copper mines in Arizona.

- NO-10466 Geologic notes on copper deposits in the Butte, Montana, area, including the Mt. view, Gagnon, Parrot, West Steward (Stewart?), Badger State, Jessie, and Edith May mines.
- NO-10491 Geologic notes on copper deposits in Arizona and New Mexico. Arizona notes concern the Silver Bell and Ray districts, Pima County; the Miami (Globe) District, Pinal County (including the Old Dominion and Insp/Inspiration mines), and the Morenci District, Greenlee County (including the Detroit Copper/D.C. and Coronado mines). New Mexico notes concern the Santa Rita District, Grant County.
- NO-10492 Geologic notes on copper deposits in Nevada and California. Nevada notes concern the Yerington District, Lyon County, including the Mason Valley, Maladule (?), Bluestone, and Ludwig mines. California notes concern the Campo Seco District, Calaveras County, including the Penn Mining Company Mine.

Published as: U.S. Geological Survey. Mineral Resources of the United States. 1915.

### **UNAWEEP COPPER DISTRICT, COLORADO. 1913.**

- NO-10486 Geologic notes on the Chance, McKinley, and Nancy mines, Unaweep District, Colorado.

Published as: U.S. Geological Survey. Bulletin 580. 1913.

### **COPPER DEPOSITS OF MICHIGAN. 1920-1925.**

- NO-10495 Geologic notes on the Copper Falls Mine.
- NO-10496 Geologic notes on the Baltic Lode.
- NO-10497 Diamond drill hole data from the Copper Range area.
- NO-10498 Geologic notes on the Champion, Trimountain, and Baltic Mines.
- NO-10499 Geologic notes on the Contact Mine, Elm River area.
- NO-10500 Diamond drill hole data from the Globe, Mohawk, and Mayflower-Old Colony properties.
- NO-10501 List of map titles and scales.
- NO-10502 Diamond drill hole data from the Lake Mine.

- NO-10503 List of specimens, with sample location and brief descriptions.
- NO-10504 Diamond drill hole data from the Mayflower and Old Colony Mines.
- NO-10505 Diamond drill hole data from Mill Mine Junction and Copper Range.
- NO-10506 Notes on mines and diamond drill hole data.
- NO-10507 Geologic notes on mines visited in 1922.
- NO-10508 Geologic notes on the Calumet Conglomerate and Ahmeek Mines.
- NO-10509 Geologic notes on Michigan copper deposits made between May and December, 1929.
- NO-10510 Geologic notes on the Quincy Mine. Also contains notes by W.S. Burbank.
- NO-10511 Geologic notes on the Quincy Mine.
- NO-10512 Geologic notes on the structure and stratigraphy of Michigan copper deposits.
- NO-10513 Diamond drill hole data for the Winona Lode.
- NO-10514 Geologic notes on the Adventure, Mass, and Knowlton Mines.
- NO-10515 Geologic notes on the Indiana, North Lake, and Algomah Mines.
- NO-10516 Document box with miscellaneous records and private reports of copper mining companies in Michigan 1919-1925 and 27 groups of notes on diamond drill holes.
- MA-02686 Cross-section diagrams from files of the Senter-Dupee Development Company and the Keweenaw Mining Company, including the Senter-Dupee Mine and the Central Mine.
- MA-02687 4 maps from the files of the Cherokee Copper Company.
- MA-02688 Items from the files of the Elm River Company and the Contact Copper Company, including 3 maps and 8 cross-section diagrams.
- MA-02689 2 copies of a longitudinal section map of the Franklin Jr. Mine.
- MA-02690 7 maps and 9 cross-section diagrams of the Hancock and Oneco Mines.
- MA-02691 13 maps and 26 cross-section diagrams of the Adventure Mine, including index blueprints of the Copper Ridge.
- MA-02692 2 maps and 5 cross-section diagrams of the Atlantic Mine, mostly Section 16 explorations.

- MA-02693 4 maps and 1 cross-section diagram from the files of the Houghton Copper Company.
- MA-02694 4 maps and 2 cross-section diagrams of the Isle Royale and Island Mines.
- MA-02695 2 maps and 3 cross-section diagrams from the files of the Keeweenaw Copper Company.
- MA-02696 3 maps from the files of the Eagle Harbor Mining Company, Keweenaw County.
- MA-02697 7 maps and 3 cross-section diagrams from the files of the Lake Copper Company.
- MA-02698 2 cross-section diagrams of the Delaware Mine, Manitou Mining Company.
- MA-02699 12 maps and 7 cross-section diagrams of the Mass Mine.
- MA-02700 4 cross-section diagrams of the Mohawk and Keersarge Mines.
- MA-02701 5 maps and 6 cross-section diagrams of the Old Colony and Mayflower Mines.
- MA-02702 1 map and 1 cross-section diagram from the files of the New Baltic Copper Company.
- MA-02703 5 maps and 3 cross-section diagrams showing mines in Ontonagon County, including the Lake or Adventure Lode, Flint Steel, Cass Copper Company, Porcupine, and Ojibway Mines.
- MA-02704 4 maps and 2 cross-section maps from the files of the Pacific Copper Company, Erie Ontario Development Company, and the Phoenix Consolidated Copper Company.
- MA-02705 1 map and 2 cross-section diagrams from the files of the Superior Copper Company, Union Copper Land and Mining Company, including the Quincy Mine.
- MA-02706 4 maps and 5 cross-section diagrams from the files of the Victoria Copper Mining Company and the White Pine Extension Mining Company.
- MA-02707 9 maps and 2 cross-section diagrams of the Winona Mine.
- MA-02708 6 maps and 21 cross-section diagrams from the files of the Twin Lakes Development Company, including the Wyandot Mine.
- MA-02709 17 maps and 15 cross-section diagrams from the files of the Algomah, North Lake, Indiana, Bohemia, South Lake, Calumet, and Hecla Consolidated Mining Companies, including the Arcadian, New Arcadian, Franklin, Oneca, Quincy, LaSalle, Algomah, Indiana, North Lake, and South Lake Mines.

- MA-02710 15 maps and 21 cross-section diagrams from the files of the Calumet, Hecla Consolidated, Seneca, Cliff, LaSalle, and Michigan Mining Companies, including the Kearsarge Amygdaloid, Manitou, St. Louis, County Road, Mandin, Gratiot, Wolverine, St. Clair, Michigan, Owl Creek, Copper Falls, Tremont-Devon, Delaware-Mandan, Ahmeek, Calumet, Huron, Boston, Evergreen, Ogima, Butler, Bee, Rockland, North Amygdaloid, Calico, and Branch Mines.
- MA-02711 8 maps and 17 cross-section diagrams from the files of the Michigan Copper and Copper Range Consolidated Copper Companies, including the Minnesota, Challenge, Globe, Baltic, Trimountain, and Champion Mines.
- MA-02712 8 maps and 29 cross-section diagrams from the files of the Copper Range Consolidated Copper Company, including the Baltic, Champion, Globe, Challenge, Mill, and Trimountain Mines. Also includes miscellaneous diamond drill and geologic section information in the vicinity.

Published as: U.S. Geological Survey. Professional Paper 144. 1929.

### **COPPER DEPOSITS OF SHASTA COUNTY, CALIFORNIA. 1907-1915.**

- NO-10455 Notes on specimens from mines in Shasta County.
- NO-10456 Geologic notes on the Bully Hill District, Shasta County.
- NO-10457 Geologic notes on workings in the Afterthought Mine, Shasta County.
- NO-10490 Notes on specimens from mines in Shasta County.
- NO-10493 Envelope with correspondence and typed and handwritten manuscripts related to geology and ore deposits of Shasta County. No title or publication information for the work is indicated.
- NO-10494 Envelope with correspondence and typed and handwritten manuscripts related to geology and ore deposits of Shasta County. No title or publication information for the work is indicated.
- MA-02684 Map folder with:
- 1 paper map of the Hornet Claim, Slickrock Creek-Boulder Creek area, Shasta County.
  - 1 paper map showing a portion of the U.S.G.S. 1:20,000-scale Little Backbone Special Map and surrounding area, Shasta County, with minor annotations.
  - 1 paper map showing a portion of the U.S.G.S. 1:20,000-scale Little Backbone Special Map and surrounding area, Shasta County, with sketched-in geology.