

GEOLOGICAL SURVEY CIRCULAR 337



REPORTS AND MAPS OF
THE GEOLOGICAL SURVEY
RELEASED ONLY IN THE
OPEN FILES, 1953

UNITED STATES DEPARTMENT OF THE INTERIOR
Douglas McKay, Secretary
GEOLOGICAL SURVEY
W. E. Wrather, Director

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By Albert M. La Sala, Lois E. Randall, and Arthur Johnson

Washington, D. C., 1954

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INTRODUCTION

This circular contains a list of the maps and reports released by the Geological Survey in 1953 that are available only in open files. They may be consulted in the Geological Survey Library in Washington, D. C., and at various field offices, the addresses of which are given immediately after the date of the report. They may also be read at the offices of various cooperating agencies, as indicated.

Most of the maps were duplicated by rapid and inexpensive processes, such as photostat, vandyke, or ozalid, but some were printed by photolithography. Most of the texts for the reports are typed copies (ribbon or carbon copy), but some have been mimeographed. A few of these reports and maps were made available in limited quantities for distribution, as indicated in the list, and these may be obtained as long as the supply lasts.

The report and maps of the Conservation Division concern the topography of federally owned or controlled lands as it affects the production of water power;

it covers areas studied or mapped by geologists and engineers in one State.

The reports and maps of the Geologic Division contain results of work accomplished by Survey geologists in 36 States, Alaska, Puerto Rico, and Greenland. These maps and reports are released in preliminary form in order to make information immediately available to property owners and mine operators concerned with exploration for and production of minerals, fuels, and construction materials.

The reports of the Water Resources Division contain information on streamflow, ground water, quality of water, and related geology and hydrology in the United States, Alaska, the Virgin Islands, Cuba, and Saudi Arabia.

A general index follows, in which the reader is referred to a report by its serial number as listed in the following list of reports, which are arranged alphabetically by names of the authors.

MAPS AND REPORTS

1. Albers, J. P., and Robertson, J. F., East Shasta copper-zinc district, Shasta County, Calif.: 1 map. Sept. 16, 1953. 102 Old Mint Bldg., San Francisco, Calif.; California Division of Mines, Ferry Bldg., San Francisco, Calif.
2. Allingham, J. W., Drilling data in Wisconsin zinc-lead district: 37 p., 2 figs. Oct. 19, 1953. Science Hall, University of Wisconsin, Madison, Wis.; 108 Wisconsin Institute of Technology, Platteville, Wis.; Wisconsin Geological and Natural History Survey, Science Hall, University of Wisconsin, Madison, Wis.
3. Allingham, J. W., Flint, A. E., and Agnew, A. F., Geologic map and recent drilling data of the Sinsinawa River area, Grant County, Wis.: 21 p., 2 figs., 1 map. May 11, 1953. 108 Wisconsin Institute of Technology, Platteville, Wis.; Wisconsin Geological and Natural History Survey, 115 Science Hall, University of Wisconsin, Madison, Wis.
4. Anders, R. B., and Heath, R. C., A brief report on the progress of the Manatee County, Fla., ground-water investigation: 11 p., 4 figs. August 24, 1953. New Dining Hall Bldg., Florida State University, Tallahassee, Fla.

5. Anderson, I. E., and Boswell, E. H., Rice irrigation potential of Bogue Phalia, Miss., a progress report: 39 p., 9 figs., 1 pl. Nov. 18, 1953. 301 Century Bldg., Jackson, Miss.
6. Austin, V. L., and George, W. O., Low flows on Neches River, Texas, September-October 1952, dam B reservoir to mouth of Village Creek: 6 p., 1 map. Jan. 7, 1953. 302 West 15th St., Austin, Tex.
7. Balsey, J. R., Total-intensity aeromagnetic profile from Denver, Colo., to Point Reyes, Calif.: 1 sheet, no text. Mar. 30, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; 102 Old Mint Bldg., San Francisco, Calif.; Grand Junction, Colo.; 234 Federal Bldg., Tulsa, Okla.; Nevada Bureau of Mines, 103 Mackay School of Mines Bldg., University of Nevada, Reno, Nev.; Division of Mines, Division Library, Ferry Bldg., San Francisco, Calif.
8. Baltz, E. H., Jr., Stratigraphic relationships of Cretaceous and early Tertiary rocks of a part of northwestern San Juan basin: 80 p., 7 figs., 2 tables. Oct. 19, 1953. 4240 General Services Administration Bldg., Washington, D. C.; 468 New Customhouse, Denver, Colo.; Library, University of New Mexico, Albuquerque, N. Mex.
9. Barksdale, H. C., and Baker, R. C., Water supply for Lancaster Resident Center, National Youth Administration (Pa.): 4 p. May 14, 1953. 430-432 Federal Bldg., Trenton, N. J. (Prepared in 1942 for National Youth Administration. Released from defense file.)
10. Barnes, F. F., Little Susitna district, Matanuska coal field, Alaska: 14 p., 1 map. Apr. 21, 1953. San Francisco, Calif.; Juneau, Anchorage, and Fairbanks, Alaska; Territorial Department of Mines office, Juneau, Alaska; Bureau of Mines, Anchorage, Alaska.
11. Bateman, P. C., Geology of the Tungstar and Hanging Valley tungsten mines: 12 p., 2 illus. June 1, 1953. 102 Old Mint Bldg., San Francisco, Calif.; California Division of Mines and Geology, Ferry Bldg., San Francisco, Calif.
12. Bateman, P. C., Geologic map of the Golconda tungsten deposit, Humboldt County, Nev.: 1 map. Nov. 25, 1953. 504 Federal Bldg., Salt Lake City, Utah; Nevada Bureau of Mines, University of Nevada, Reno, Nev.
13. Bates, C. E., Photogeologic map, Carlisle 3 quadrangle, San Juan County, Utah: 1 map. July 23, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
14. Bates, C. E., Photogeologic map, Carlisle 6 quadrangle, San Juan County, Utah: 1 map. Oct. 19, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
15. Bates, C. E., and Eckstein, W. H., Photogeologic map, Clay Hills 16, San Juan County, Utah: 1 map. Jan. 9, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
16. Bates, C. E., and Hosley, V. M., Photogeologic map, Tidwell 9 quadrangle, Emery and Grand Counties, Utah: 1 map. Nov. 25, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
17. Bates, C. E., Photogeologic map, Moab 10 quadrangle, Grand County, Utah: 1 map. Sept. 16, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
18. Bates, C. E., Photogeologic map, Moab 11 quadrangle, Grand County, Utah. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
19. Beamer, N. H., Chemical character of surface water in Pennsylvania, 1949-1951: 25 p. June 26, 1953. 1302 Custom House, 2d and Chestnut Sts., Philadelphia, Pa.
20. Beetem, W. A., Chemical quality of water resources of the Conewango Creek basin, N. Y.: 58 p., 7 figs. Nov. 19, 1953. P. O. Box 154, Saratoga Springs, N. Y.
21. Benson, W. E., The geology of the Knife River area, North Dakota: 323 p., 13 map sheets. 6 figs. June 5, 1953. State Geologist, Grand Forks, N. Dak.; Library, Yale University, New Haven, Conn.
22. Billingsley, G. A., and Hubble, J. H., Chemical analyses of spring waters in the Hot Springs National Park, Ark., area: 17 p. Mar. 16, 1953. I. S. T. Bldg., University of Arkansas, Fayetteville, Ark. Cooperative report with University of Arkansas and AEC.
23. Billingsley, G. A., and Joyner, B. F., Chemical character of surface waters of North Carolina, 1951-1952: 15 p., 14 figs. Dec. 11, 1953. P. O. Box 5668, 103 Oberlin Rd., Raleigh, N. C.
24. Bolon, H. C., Low-water study, Gasconade River basin, Missouri: 10 p., 3 figs., 1 map. Dec. 4, 1953. 211 Ramsay Bldg., Rolla, Mo.
25. Briggs, R. C., and Troxell, H. C., Effect of Arrin-Tehachapi earthquake on springs and streamflow: 56 p., 18 figs. (For publication by California Division of Mines.) Sept. 24, 1953. 541 Federal Office Bldg., San Francisco, Calif.
26. Brobst, D. A., Geology of the Plumtree area, Spruce Pine district, North Carolina: 115 p., 20 pls., 15 figs., 9 tables. Sept. 16, 1953. 13 Post Office Bldg., Knoxville, Tenn.; Division of Mineral Resources, Department of Conservation and Development, State Office Bldg., Raleigh, N. C.

27. Brown, R. H., and Reed, E. W., Supplement to the effect of a well on the flow of a nearby stream, by C. V. Theis, in *American Geophysical Union Transactions*, pt. 3, p. 734-738, August, 1941: 3 p., 1 fig. July 28, 1953. 1242-G General Services Administration Bldg., Washington, D. C.
28. Cameron, E. N., Larrabee, D. M., McNair, A. H., Page, J. J., Stewart, G. W., and Shainin, V. E., Pegmatite investigations in Maine, New Hampshire, and Connecticut, 1942-1945: 853 p., 189 illus. Feb. 5, 1953. Beltsville, Md.; New Hampshire Planning and Development Commission, Concord, N. H.; Franklin Mica Processing Plant, 95 Memorial Street, Franklin, N. H.
29. Campbell, A. B., Geologic map of the Smelterville and vicinity quadrangle, Shoshone County, Idaho: 1 map, no text. June 1, 1953. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, Moscow, Idaho.
30. Campbell, A. B., Bowyer, Ben, Shenon, P. J., and McConnel, R. H., Geologic map of the Kellogg and vicinity quadrangle, Shoshone County, Idaho: 1 map, no text. Aug. 17, 1953. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, Moscow, Idaho.
31. Canney, F. C., Hawkes, H. E., Richmond, G. M., and Vhay, J. S., A preliminary report of geochemical investigations in the Blackbird district, Lemhi County, Idaho: 20 p., 4 pls. Dec. 21, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.
32. Carlson, J. E., Drilling data in Wisconsin zinc-lead district: 30 p., 2 figs. Oct. 19, 1953. Science Hall, University of Wisconsin, Madison, Wis.; 108 Wisconsin Institute of Technology, Platteville, Wis.; Wisconsin Geological and Natural History Survey, Science Hall, University of Wisconsin, Madison, Wis.
33. Castle, R. O., and Linehan, Rev. Daniel, Geology and geologic interpretation of seismic data—Revere Beach Parkway: Boston and Maine Railroad Crossing, Medford; Malden River, Medford-Everett; and Boston and Maine Railroad (Saugus Branch), Everett: 4 p., 6 pl. Feb. 5, 1953. Room 1, 270 Dartmouth Street, Boston, Mass; Massachusetts Dept. Public Works, 100 Nashua Street, Boston, Mass.
34. Cathcart, J. B., Blade, L. V., Davidson, D. F., and Ketner, K. B., The geology of the Florida land-pebble phosphate deposits: 21 p., 4 figs. Mar. 30, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Plant City, Florida.
35. Cathcart, J. B., and Ward, E. L. M., Maps showing mined-out areas and property ownership, land-pebble phosphate district, Hillsborough and Polk Counties, Fla.: 2 maps. Dec. 21, 1953. Lee Bldg., Plant City, Fla.; Florida Geological Survey, Tallahassee, Fla.
36. Cheney, T. M., Sheldon, R. P., Cressman, E. R., Smart, R. A., and Carswell, L. D., Stratigraphic sections of the Phosphoria formation measured and sampled in 1952: 26 p. June 1, 1953. 504 Federal Bldg., Salt Lake City, Utah; South 157 Howard Street, Spokane, Wash.; Montpelier, Idaho (open from May to October); Idaho Bureau of Mines and Geology, Moscow, Idaho; Montana Bureau of Mines and Geology, Butte, Mont.; Wyoming Geological Survey, Laramie, Wyo.; University of Utah, Salt Lake City, Utah.
37. Clark, L. D., Pre-Cambrian geology of the Norway Lake area, Dickinson County, Mich.: 62 p., 14 pls., 2 figs., 4 tables. Sept. 16, 1953. Geological Survey Division, Michigan State Department of Conservation, Lansing, Mich.; Iron River, Mich.
38. Colton, R. B., Geologic map of the Fort Peck Indian Reservation and vicinity: 1 map. May 29, 1953. 468 New Customhouse, Denver, Colo.; 315 Federal Bldg., Billings, Mont.; State Bureau of Mines and Geology, Butte, Mont.
39. Colton, R. B., The geology of Wolf Point quadrangle, Mont.: 1 map. Sept. 16, 1953. 468 New Customhouse, Denver, Colo.; State Bureau of Mines and Geology, Butte, Mont.
40. Condon, W. H., Photogeologic map, Emery 8 quadrangle, Emery County, Utah: 1 map. Aug. 17, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
41. Condon, W. H., Photogeologic map, Emery 9 quadrangle, Emery County, Utah: 1 map. Oct. 19, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
42. Condon, W. H., Photogeologic map, Emery 16 quadrangle, Emery County, Utah: 1 map. July 23, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
43. Condon, W. H., Photogeologic map, Orange Cliffs 4 quadrangle, Wayne County, Utah: 1 map. Nov. 25, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
44. Condon, W. H., Photogeologic map, Orange Cliffs 10 quadrangle, Wayne and Garfield Counties, Utah: 1 map. Sept. 16, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
45. Conklin, H. L., Steel tubular products in general use as water-well pipe: 7 p. August 24, 1953. 1242-G General Services Administration Bldg., Washington, D. C.
46. Conover, C. S., Letter to John H. Bliss, State Engineer of New Mexico, on Ground-water conditions in the Upper Black River Valley, N. Mex.: 5 p., 2 figs. Feb. 27, 1953. 218 Bass Bldg., 918 West Park Ave., Albuquerque, N. Mex.

47. Crandall, Lynn, Future upstream depletion of Snake River in Idaho above Hells Canyon: 6 p., 2 figs. Apr. 23, 1953. 204 Federal Bldg., Idaho Falls, Idaho; 429 Federal Bldg., Boise, Idaho.
48. Currier, L. W., Geologic and seismic study of relocation of Route 5 at the Connecticut River crossing of the Boston and Albany Railroad, vicinity of station 266+40, West Springfield, Mass.: 1 p. Room 1, 270 Dartmouth Street, Boston, Mass.; Massachusetts Department of Public Works, 100 Nashua Street, Boston, Mass.
49. Cushing, E. M., Data on ground-water pumpage and water levels, Memphis, Tenn., 1953: 18 p., 14 graphs. September 25, 1953. Memphis General Depot, U. S. Army, Memphis, Tenn.
50. Dale, O. C., and Broadhurst, W. L., Memorandum on ground-water irrigation in Mitchell County, Texas: 21 p., 1 fig. July 28, 1953. 302 West 15th St., Austin, Tex.
51. Daviess, S. N., and Bramlette, M. N., Clay deposits of the Tierra Colorado district, southern Orange County, Calif.: 11 p., 1 pl. Sept. 16, 1953. 102 Old Mint Bldg., San Francisco, Calif.; 529 Post Office and Courthouse Bldg., Los Angeles, Calif.; California State Division of Mines, Ferry Bldg., San Francisco, Calif.
52. Daviess, S. N., and Bramlette, M. N., The Alberhill and other clay deposits of Temescal Canyon, Riverside County, Calif.: 10 p. 1 pl. Sept. 16, 1953. 102 Old Mint Bldg., San Francisco, Calif.; 529 Post Office and Courthouse Bldg., Los Angeles, Calif.; California State Division of Mines, Ferry Bldg., San Francisco, Calif.
53. de Laguna, Wallace, Modified Norris electric tape: 5 p., 4 figs. Oct. 30, 1953. Brookhaven National Laboratory, Upton, L. I., N. Y.; 230 Old Country Rd., Mineola, N. Y.
54. Dings, M. G., Nelson, V. E., Gladstone, Irvin, and Pabst, Adolf, Geologic map of parts of the Metaline and Slate Creek districts, Pend Oreille County, Wash.. 5 sheets, no text. June 22, 1953. South 157 Howard Street, Spokane, Wash.; Division of Mines and Geology, Department of Conservation and Development, 406 Transportation Bldg., Olympia, Wash.
55. Dougherty, D. F., The water supply of Riyadh, Saudi Arabia: 3 p., 1 fig. Mar. 13, 1953. 2205 General Services Administration Bldg., Washington, D. C.
56. Durfor, C. N., and Keighton, W. B., Chemical and physical characteristics of Delaware River water from Trenton, N. J. to Marcus Hook, Pa., 1949-1952: 46 p., 21 figs. Dec. 30, 1953. 1302 Custom House, 2d and Chestnut Sts., Philadelphia, Pa.
57. Dutcher, L. C., Memorandum on the flow of Agua Caliente Spring after road improvement at Palm Springs, Calif.: 7 p. November 25, 1953. 2520 Marconi Ave., Sacramento, Calif.; 221 Redondo Ave., Long Beach, Calif.
58. Dutcher, L. C., and Garrett, A. A., San Bernardino area, Calif.: Three maps showing water-level contours for the San Bernardino area for spring 1936, spring 1945, and spring 1951; east-west geologic section from Colton to Mill Creek Canyon; geologic section from Shandin Hills southeast to Bryn Mawr; and water-level profiles along the section from Colton to Mill Creek Canyon. March 4, 1953. 2520 Marconi Ave., Sacramento, Calif.
59. Eckstein, W. H., Photogeologic map, Agathla Peak 2, Navajo County, Ariz.: 1 map. Jan. 9, 1953. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; Arizona Bureau of Mines, University of Arizona, Tucson, Ariz.
60. Eckstein, W. H., Photogeologic map, Agat'la Peak 6 quadrangle Navajo County, Ariz.: 1 map. June 22, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.; Arizona Bureau of Mines, Tucson, Ariz.
61. Erdman, C. E., and Koskinen, V. K., Preliminary structure contour map of Blaine, northern Chouteau, and Hill Counties and adjoining areas in Montana: 1 map. Aug. 17, 1953. 417 Electric Bldg., Great Falls, Mont.; 305 Federal Bldg., Casper, Wyo.; 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
62. Espenshade, G. H., and Potter, D. B., Kyanite quartzite in the Baker Mountain-Madisonville area, Prince Edward and Charlotte Counties, Va.: 1 map. July 23, 1953. 13 Post Office Bldg., Knoxville, Tenn.; Virginia Geological Survey, Charlottesville, Va.; Division of Mineral Resources, Department of Conservation and Development, State Office Bldg., Raleigh, N. C.; Department of Geology, Mineralogy, and Geography, University of South Carolina, Columbia, S. C.
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64. Ferris, J. G., Ground-water resources of southeastern Oakland County, Mich.: 16 p., 1 fig. September 25, 1953. 407 Capitol Savings and Loan Bldg., 112 East Allegan St., Lansing, Mich.; Michigan Geological Survey, Lansing, Mich.; Michigan Water Resources Commission, Lansing, Mich.; Detroit Metropolitan Planning Commission, Detroit, Mich.

65. Ferris, J. G., Ground-water resources of the Holland area, Ottawa County, Mich.: 29 p., 3 figs. May 25, 1953. 417 Capitol Savings and Loan Bldg., 112 East Allegan St., Lansing, Mich.
66. Feth, J. H., Geology of the recharge area, Weber Canyon, Utah: 2 p., 1 fig. September 25, 1953. 503-A Federal Bldg., Salt Lake City, Utah; 230 24th St., Ogden, Utah.
67. Fischer, W. A., Photogeologic map, Clay Hills 14, San Juan County, Utah: 1 map. Jan. 9, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
68. Fischer, W. A., and Condon, W. H., Photogeologic map of Shanto Spring 1 quadrangle, Navajo County, Ariz.: 1 map. Feb. 5, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.; Arizona Bureau of Mines, University of Arizona, Tucson, Ariz.
69. Fischer, W. A., and Condon, W. H., Photogeologic map of Navajo Mountain 9 quadrangle, San Juan County, Utah. Feb. 5, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
70. Fischer, W. A., and Condon, W. H., Photogeologic map of Navajo Mountain 16 quadrangle, San Juan County, Utah. Feb. 5, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
71. Flint, A. E., Stratigraphic relations of the Shakopee dolomite and the St. Peter sandstone in southwestern Wisconsin: 129 p., 8 figs., 14 pls. Dec. 21, 1953. 108 Wisconsin Institute of Technology, Platteville, Wis.; 213 Science Hall, University of Wisconsin, Madison, Wis.
72. Flint, A. E., and Brown, C. E., Descriptive logs of exploratory holes drilled during 1952 by the Geological Survey in Dubuque County, Iowa: 11 p., 1 fig. Mar. 16, 1953. 108 Wisconsin Institute of Technology, Platteville, Wis.; 213 Science Hall, University of Wisconsin, Madison, Wis.; Iowa Geological Survey, Geology Annex, Iowa City, Iowa.
73. Foxworthy, B. L., Ground water in the lower Ahtanum Valley, Wash., and possible effects of increased withdrawal in that area: 26 p., 2 pls. 2128 South 38th St., Tacoma, Wash.
74. Fryklund, V. C., Jr., Harner, R. S., and Kaiser, E. P., Niobium (columbium) and titanium at Magnet Cove and Potash Sulphur Springs, Ark.: 26 p., 12 figs., 11 tables. May 11, 1953. 468 New Customhouse, Denver, Colo.; Arkansas Resources and Development Commission, Division of Geology, Little Rock, Ark.
75. Garrett, A. A., Suggested procedure to be followed in making observations at drilling site: Exploratory well program, Geological Survey of India, 15 p. (For duplication by Geological Survey of India.) December 30, 1953. 1242-G General Services Administration Bldg., Washington, D. C.
76. Garrett, A. A., and Dutcher, L. C., Maps and sections showing ground-water conditions in the San Bernardino area, Calif. Feb. 27, 1953. 2520 Marconi Ave., Sacramento, Calif.; 221 Redondo Ave., Long Beach, Calif.
77. Geraghty, J. J., Water-level and chloride-content data at outpost observation wells in southwestern Nassau County, Long Island, N. Y.: 8 p., 1 fig. November 25, 1953. 230 Old Country Rd., Mineola, L. I., N. Y.
78. Graeff, Jr., G. D., Ground-water conditions in a typical limestone area, near Inwood, W. Va.: 5 p., 1 fig. October 30, 1953. 405 Mineral Industries Bldg., Morgantown, W. Va.
79. Grantz, Arthur, Preliminary report on the geology of the Nelchina area, Alaska: 3 maps, 1 explanation, 9 figs. May 27, 1953. 100 Old Mint Bldg., San Francisco, Calif.; Subport Bldg., Juneau, Alaska; Office of Regional Mining Supervisor, Conservation Division, Anchorage, Alaska; Alaskan Geology Branch, College, Alaska; 468 New Customhouse, Denver, Colo.; 529 Post Office and Courthouse Bldg., Los Angeles, Calif. Copies reproduced without color patterns are available at private expense by writing to the San Francisco office of the Survey.
80. Griggs, A. B., Wallace, R. E., and Hobbs, S. W., Geologic map and structure sections of the Mullan and vicinity quadrangle, Idaho: 2 sheets, 6 sec., no text. Mar. 16, 1953. South 157 Howard Street, Spokane, Wash.; Idaho Bureau of Mines and Geology, University of Idaho, Moscow, Idaho.
81. Grimaldi, F. S., Quercetin as a colorimetric reagent for zirconium: 93 p., 7 figs. Oct. 19, 1953. Room 1033, General Services Bldg., Washington, D. C.
82. Gude, A. J., 3d, and McKeown, F. A., Results of exploration at the Old Leyden coal mine, Jefferson County, Colo.: 14 p., 11 figs. Mar. 30, 1953. 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
83. Hackman, R. J., Photogeologic map, Circle Cliffs 2 quadrangle, Garfield County, Utah: 1 map. Dec. 21, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
84. Hackman, R. J., Photogeologic map, Circle Cliffs 6 quadrangle, Garfield County, Utah: 1 map. July 23, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.

85. Hackman, R. J., Photogeologic map, Circle Cliffs 7 quadrangle, Garfield County, Utah: 1 map. Aug. 17, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
86. Hackman, R. J., Photogeologic map of the Circle Cliffs 10 quadrangle, Garfield County, Utah: 1 map. May 11, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
87. Hackman, R. J., Photogeologic map, Circle Cliffs 11 quadrangle, Garfield County, Utah: 1 map. Oct. 19, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
88. Hackman, R. J., Photogeologic maps, Circle Cliffs 14 and 15 quadrangles, Garfield and Kane Counties, Utah: 2 maps. Oct. 19, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
89. Hackman, R. J., Photogeologic map, Circle Cliffs 16 quadrangle, Garfield and Kane Counties, Utah: 1 map. Sept. 16, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
90. Hackman, R. J., Photogeologic map of Mount Peale 1 quadrangle, Grand and San Juan Counties, Utah, and Montrose County, Colo. Feb. 5, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
91. Hackman, R. J., Photogeologic map, Mount Peale 4 quadrangle, Grand and San Juan Counties, Utah: 1 map. July 23, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
92. Hackman, R. J., Photogeologic map of Mount Peale 7 quadrangle, San Juan County, Utah. Feb. 5, 1953. 504 Federal Bldg., Salt Lake City, Utah; 468 New Customhouse, Denver, Colo.; Grand Junction, Colo.
93. Hackman, R. J., Photogeologic map, Mount Peale 8, Montrose County, Colo., and San Juan County, Utah: 1 map. Jan. 9, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
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97. Hackman, R. J., Photogeologic map, Mount Peale 16, San Juan County, Utah, and San Miguel County, Colo. Jan. 9, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah.
98. Hackman, R. J., Photogeologic map, Mount Pennell 5 quadrangle, Garfield County, Utah: 1 map. Aug. 17, 1953. 468 New Customhouse, Denver, Colo.; 504 Federal Bldg., Salt Lake City, Utah; Grand Junction, Colo.
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