

GEOLOGICAL SURVEY CIRCULAR 548



# Reports and Maps of the Geological Survey Released Only in the Open Files, 1967





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By Betsy A. Weld, Margaret S. Griffin  
and George W. Brett

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G E O L O G I C A L   S U R V E Y   C I R C U L A R   5 4 8



**United States Department of the Interior**  
STEWART L. UDALL, *Secretary*



**Geological Survey**  
William T. Pecora, *Director*



# Reports and Maps of the Geological Survey

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### INTRODUCTION

This circular contains a list of maps and reports released by the U.S. Geological Survey during 1967 that are available for public inspection in the open files. These maps and reports may be consulted at the indicated depositories, and copies may be made upon request (at the requestor's expense).

The reports are arranged alphabetically by author; each report is preceded by a serial number that is used to identify the report in the index (p. 17), and is followed by the depositories at which it may be consulted.

Most open-file reports are on file in at least one of the major U.S. Geological Survey depositories listed below. Many are also on file at depositories selected as appropriate for the individual reports. All depositories are U.S. Geological Survey offices unless a State Geological Survey or other organization is specifically indicated. The following symbols are used in the list to indicate the major depositories:

- Wa Library, 1033 General Services Administration Building, 18th and F Streets, NW., Washington, D. C. 20242.
- Wb 132 Washington Building, Arlington Towers, 1011 Arlington Boulevard, Arlington, Va. 22209.
- Da Library, Building 25, Federal Center, Denver, Colo. 80225.
- Db Public Inquiries Office, 1012 Federal Building, Denver, Colo. 80202.
- M Library, 345 Middlefield Road, Menlo Park, Calif. 94025.
- F Library, 801 East Cedar Avenue, Flagstaff, Ariz. 86001.

- A Public Inquiries Office, 108 Skyline Building, 508 2nd Ave., Anchorage, Alaska 99501.
- LA Public Inquiries Office, 7638 Federal Building, 300 N. Los Angeles Street, Los Angeles, Calif. 90012.
- S Public Inquiries Office, 678 U.S. Court House Building, West 920 Riverside Avenue, Spokane, Wash. 99201.
- SF Public Inquiries Office, 504 Custom House, 555 Battery Street, San Francisco, Calif. 94111.
- T Public Inquiries Office, 602 Thomas Building, 1314 Wood Street, Dallas, Tex. 75202.
- U Public Inquiries Office, 8102 Federal Office Building, 125 South State Street, Salt Lake City, Utah 84111.

Open-file reports released during past years have been listed in the following circulars (\* indicates report is out of print):

Year(s)	Circular	Year	Circular
1946-47	*56	1958	412
1948	*64	1959	428
1949-50	*149	1960	448
1951	*227	1961	463
1952	*263	1962	473
1953	*337	1963	488
1954	*364	1964	498
1955	*379	1965	518
1956	*401	1966	528
1957	*403		

# MAPS AND BOOK REPORTS

1. Ackroyd, E. A., Preliminary map showing the estimated potential yields of the Little Muddy aquifer, Williams County, North Dakota: 1 map. (Wb; 348 New Federal Bldg., Third St. and Rosser Ave., Bismarck, N. Dak. 58502.)
2. Akers, J. P., The geohydrology of Pinnacles National Monument, California: 32 p., 2 figs. (Wb, LA, M, SF.)
3. Akers, J. P., and Hickey, J. J., Geohydrologic reconnaissance of the Soquel-Aptos area, Santa Cruz County, California: 58 p., 5 figs. (Wb, M, LA, SF.)
4. Anderson, C. A., Preliminary geologic map of the SW  $\frac{1}{4}$  Mayer quadrangle, Yavapai County, Arizona: 1 map, scale 1:24,000. (Wa, Da, Db, M, SF, LA, U.)
5. Anderson, H. W., Jr., Ground-water resources of Island County, Washington, with a section on Quality of the ground water, by A. S. Van Denburgh: 254 p., 22 figs. (Wb; Rm. 300, 1305 Tacoma Ave. S., Tacoma, Wash. 98402.)
6. Anderson, Warren, Flow characteristics of the St. Johns River at Palatka, Florida: 19 p., 5 figs. (Wb; Gunter Bldg., Tennessee and Woodward Sts., Tallahassee, Fla. 32304.)
7. Bailey, N. G., Cinder Lake crater field location test: 17 p., 2 pls., 5 figs. (Wa, Da, M, F.)
8. Baker, R. C., Measured stratigraphic sections, Salt Croton and Croton Creek valleys, Kent and Stonewall Counties, Texas: 24 p., 2 figs. (Wb, T; Federal Bldg., 300 E. 8th Ave., Austin, Tex. 78701.)
9. Ballance, W. C., and Basler, J. A., Runoff from a paved small watershed at White Sands Missile Range, New Mexico: 18 p., 3 figs. (Wb, Db; Geology Bldg., Univ. of New Mexico, Albuquerque, N. Mex. 87106.)
10. Barnes, D. F., Four preliminary gravity maps of parts of Alaska: 4 maps and index map, scale, approximately 1:5,000,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Drive., Anchorage, Alaska 99504.)
11. Barosh, P. J., Preliminary geologic section from Pahute Mesa, Nevada Test Site, to Enterprise, Utah: 37 p., 2 pls., 1 fig. (Wa, Da, Db, M, LA, SF, U; Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev. 89507.)
12. Barraclough, J. T., Teasdale, W. E., Robertson, J. B., and Jensen, R. G., Hydrology of the National Reactor Testing Station, Idaho, 1966: 98 p., 56 figs. (Wb, SF, U, S; P.O. Box 2230, Idaho Falls, Idaho 83401.)
13. Basler, J. A., Rehabilitation of wells 13, 15, 16, and 17, Headquarters area, White Sands Missile Range, New Mexico: 86 p., 9 figs. (Wb, Db, T, U.)
14. Bath, G. D., Aeromagnetic anomalies related to remanent magnetism in volcanic rocks, Nevada Test Site: 20 p., 7 figs. (Wa, De, Db, LA, M, SF, U; Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev. 89507.)
15. Beeson, M. H., A computer program for processing electron microprobe data: 10 p., 31 p. appendix. (Wa, Da, M, SF.)
16. Bergendahl, M. H., Geologic map of the Dillon SW quadrangle, Eagle and Summit Counties, Colorado: 1 map, 1 sheet of data, scale 1:24,000. (Wa, Da, Db, U, M.)
17. Bingham, J. W., Maps of the Columbia River Irrigation Project area, Washington, showing water-level altitudes, March-April 1963: 2 maps. (Wb, LA, SF, S; Rm. 300, 1305 Tacoma Ave. S., Tacoma, Wash. 98402.)
18. Blankennagel, R. K., Hydraulic testing techniques of deep drill holes at Pahute Mesa, Nevada Test Site: 51 p., 11 figs. (Wb, LA, SF, U.)
19. Bloyd, R. M., Jr., Progress report on the ground-water investigations in San Geronio Pass area, California: 13 p., 2 figs. (Wb, M, LA, SF; 13245 Harbor Blvd., Garden Grove, Calif. 92640.)
20. Bloyd, R. M., Jr., Water-resources inventory for 1966, Antelope Valley-East Kern Water Agency area, California: 19 p., 7 figs. (Wb, LA, SF, M; 13245 Harbor Blvd., Garden Grove, Calif. 92640.)
21. Bloyd, R. M., Jr., Water-resources of the Antelope Valley-East Kern Water Agency area, California: 135 p., 18 figs. (Wb, M, LA, SF; 13245 Harbor Blvd., Garden Grove, Calif. 92640.)
22. Boner, F. C., and Omang, R. J., Magnitude and frequency of floods from drainage areas less than 100 square miles in Montana: 23 p., 7 figs. (Wb; 421 Federal Bldg., Helena, Mont. 59601.)
23. Bonilla, M. G., Historic surface faulting in continental United States and adjacent parts of Mexico: 36 p., 10 figs., 1 table. (Wa, Da, Db, M, A, LA, S, SF, T, U.)
24. Borchardt, R. D., Healy, J. H., Jackson, W. H., and Warren, D. R., Seismic measurements of explosions in the Tatum Salt Dome, Mississippi: 11 p., 2 tables, 53 p. figs. (Wa, Da, M.)
25. Boudette, E. L., Hatch, N. L., Jr., and Harwood, D. S., Geology of the Upper St. John and Allagash River basins, Maine: 77 p., 2 pls., 2 figs., 2 tables, and 14 sheets appendix (13 maps, 1 explanation), scale, 2 at 1:250,000 and 13 at 1:62,500. (Wa, Da, M; 80 Broad St., Boston,

- Mass. 02110; Dept. of Econ. Devel., Div. of Geology, State House, Augusta, Me. 04330.)
26. Bowles, C. G., Present-day ground water, a possible guide to uranium exploration in the southern Black Hills of South Dakota and Wyoming: 24 p., 13 figs., 1 table. (Wa, Da, Db, M, U; South Dakota State Geol. Survey, Science Center, Univ. of South Dakota, Vermillion, S. Dak. 57069; South Dakota School of Mines, Rapid City, S. Dak. 57701; Wyoming Geol. Survey, Univ. of Wyoming, Laramie, Wyo. 82070.)
  27. Braddock, W. A., Geologic map of the Empire quadrangle, Grand, Gilpin, and Clear Creek Counties, Colorado: 1 map and explanation, scale 1:20,000. (Wa, Da, Db, M, U.)
  28. Bromfield, C. S., Baker, A. A., Crittenden, M. D., Jr., Geologic map of the Heber quadrangle, Wasatch and Summit Counties, Utah: 1 map, scale 1:24,000. (Wa, Da, Db, M, U.)
  29. Brosgé, W. P., Reiser, H. N., and Tailleur, I. L., Copper analyses of selected samples, southwestern Brooks Range, Alaska: 1 sheet. (Wa, Da, Db, M, SF, LA, A, S, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
  30. Brown, R. D., Jr., Most conspicuous strands of the San Andreas and related faults, southwestern Marin County, California: 1 map, scale 1:24,000. (Wa, Da, M, SF, LA.)
  31. Bryan, Kirk, Smith, E. P. G., and Waring, G. A., Ground-water supplies and irrigation in San Pedro Valley, Arizona: 170 p., 16 pls., 5 figs. (Wb.)
  32. Buturla, Frank, Jr., Preliminary ground-water availability map of Wells County, North Dakota: 5 p., 1 fig. (Wb; 348 New Federal Bldg., Third St. and Rosser Ave., Bismarck, N. Dak. 58502.)
  33. Cadigan, R. A., Tabulated petrologic data from a study of the Morrison Formation in the Colorado Plateau region: 16 tables (64 p.). [Supplemental data in connection with USGS Prof. Paper 556, Petrology of the Morrison Formation in the Colorado Plateau region.] (Wa, Da, M.)
  34. Calkins, J. A., The geology of the western limb of the Hazara-Kashmir syntaxis, West Pakistan and Kashmir: 150 p., 6 pls. (incl. 2 quadrangles, scale 1:50,000), 33 figs., 4 tables. (Wa, Da.)
  35. Callahan, J. E., and Wanek, A. A., Geologic reconnaissance of possible power sites at Spur Mountain, Tyee, and Eagle Lakes, southeastern Alaska: 80 p., 11 figs., 1 table. (Wa, A, S; 244 Federal Bldg., Tacoma, Wash. 98401; Alaska Power Adm., Juneau, Alaska 99801.)
  36. Carpenter, P. J., Floods in Rock River basin, Iowa: 32 p., 5 figs. (Wb; 508 Hydraulic Lab., Iowa City, Iowa 52240.)
  37. Carpenter, P. J., and Appel, D. H., Water-surface profiles of Raccoon River at Des Moines, Iowa: 5 p., 9 figs. (Wb; 508 Hydraulic Lab., Iowa City, Iowa 52240.)
  38. Carroll, R. D., Coffin, D. L., Ege, J. F., and Welder, F. A., Preliminary report on Bureau of Mines Yellow Creek core hole No. 1, Rio Blanco County, Colorado: 36 p., 5 figs., 5 tables. (Wa, Da, Db, M, U, LA, SF.)
  39. Case, J. E., Geophysical ore guides along the Colorado mineral belt: 13 p., 8 figs. (Wa, Da, Db, M, U.)
  40. Cathcart, J. B., Florida type phosphorite deposits—origin and techniques for prospecting: 27 p., 1 fig., 2 tables. (Wa, Da, M.)
  41. Cathcart, J. B., Marine phosphorite deposits—economic considerations: 21 p., 1 table. (Wa, Da, M.)
  42. Cathcart, J. B., Phosphate exploration in Columbia—a case history: 19 p., 1 fig., 1 table. (Wa, Da, M.)
  43. Cathcart, J. B., and Zambrano O., Francisco, Phosphate rock in Columbia: A preliminary report, with a section on The phosphate occurrence at Turmeque, by Pedro E. Mojica G.: 123 p., 11 figs., 3 tables. (Wa.)
  44. Chapman, R. M., and Foster, R. L., Locations and descriptions of lode mines and prospects in the Fairbanks district, Alaska: 28 p., 1 fig., 2 tables. (Wa, Da, Db, M, S, A, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
  45. Clarke, F. E., and Barnes, Ivan, Evaluation and control of corrosion and encrustation in tube wells of the Indus Plain, West Pakistan: 69 p., 28 figs. (Wb, M.)
  46. Clement, R. W., Flood of May 30-31, 1965 in the Carlsbad, New Mexico, area: 46 p., 4 figs. (Wb, Db, T, U; Geology Bldg., Univ. of New Mexico, Albuquerque, N. Mex. 87106.)
  47. Click, D. E., and Aldridge, B. N., Floods from small drainage areas in Arizona: 27 p., 4 figs. (Wb, LA, SF, Db, U; Geology Bldg., Univ. of Arizona, Tucson, Ariz. 85717.)
  48. Clifton, H. E., Sample size preconcentration requirements for meaningful analysis of gold: 1 chart. (Wa, Da, Db, U, M, S, A, SF, LA, T.)

49. Cobb, E. H., compiler, Metallic mineral resources map of the Bendeleben quadrangle, Alaska: 9 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
50. Cobb, E. H. compiler, Metallic mineral resources map of the Big Delta quadrangle, Alaska: 4 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
51. Cobb, E. H. compiler, Metallic mineral resources map of the Candle quadrangle, Alaska: 5 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99801; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
52. Cobb, E. H., compiler, Metallic mineral resources map of the Chandalar quadrangle, Alaska: 5 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
53. Cobb, E. H., compiler, Metallic mineral resources map of the Charley River quadrangle, Alaska: 3 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
54. Cobb, E. H., compiler, Metallic mineral resources map of the Circle quadrangle, Alaska: 6 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
55. Cobb, E. H., compiler, Metallic mineral resources map of the Eagle quadrangle, Alaska: 8 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
56. Cobb, E. H., compiler, Metallic mineral resources map of the Fairbanks quadrangle, Alaska: 8 p., 1 pl., scale 1:250,000. Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
57. Cobb, E. H., compiler, Metallic mineral resources map of the Healy quadrangle, Alaska: 5 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
58. Cobb, E. H., compiler, Metallic mineral resources map of the Livengood quadrangle, Alaska: 11 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
59. Cobb, E. H., compiler, Metallic mineral resources map of the Mount Hayes quadrangle, Alaska: 8 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
60. Cobb, E. H., compiler, Metallic mineral resources map of the Solomon quadrangle, Alaska: 10 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
61. Cobb, E. H., compiler, Metallic mineral resources map of the Tanana quadrangle, Alaska: 8 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)



62. Cobb, E. H., compiler, Metallic mineral resources map of the Wiseman quadrangle, Alaska: 6 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
63. Cobb, E. H., and Richter, D. H., compilers, Metallic mineral resources map of the Seward and Blying Sound quadrangles, Alaska: 13 p., 1 map, scale 1:250,000. (Wa, Da, Db, M, A, LA, S, SF; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 3001 Porcupine Dr., Anchorage, Alaska 99504, University Ave., College, Alaska 99701, and 509 Goldstein Bldg., Juneau, Alaska 99801.)
64. Collins, F. R., and Robinson, F. M., Subsurface stratigraphic, structural and economic geology, northern Alaska: 259 p., 19 pls., 16 figs., 2 tables. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Goldstein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
65. Colton, R. B., Sand and gravel pit data sheets and location map for the Torrington quadrangle, Connecticut: 1 map, 37 tables. (Wa, Da, M; 80 Broad St., Boston, Mass. 02110; Connecticut Geol. and Nat. History Survey, Judd Hall, Wesleyan Univ., Middletown, Conn. 06457.)
66. Condes de la Torre, Alberto, Streamflow and flood characteristics, Pima County, Arizona (a progress report): 24 p., 7 figs. (Wb, LA, SF, Db, U; Geology Bldg., Univ. of Arizona, Tucson, Ariz. 85717; 201 E. Roosevelt St., Phoenix, Ariz. 85004.)
67. Cook, J. J., A survey of lunar geology, 10 January 1966 through 10 June 1966: 71 p., 28 figs., 3 tables. (Wa, Da, M, F.)
68. Cornwall, H. R., Preliminary geologic map of southern Nye County, Nevada: 1 map and explanation, 1 fig., 6 p. source data; scale 1:250,000. (Wa, Da, M, SF, LA, U; Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev. 89507.)
69. Cross, W. P., Flood of July 12, 1966, in the vicinity of Sandusky, Ohio. (Wb; 554 Post Office Bldg., Columbus, Ohio 43215.)
70. Crosthwaite, E. G., Memorandum report on ground-water conditions of the site of the Kooskia National Fish Hatchery (Idaho): 18 p., 2 figs. (Wb, SF, U, S; 215 Jefferson St., Boise, Idaho 83702.)
71. Crosthwaite, E. J., Mundorff, M. J., and Walker, E. H., Ground-water aspects of the lower Henrys Fork region, Idaho: 79 p., 1 fig. (Wb, SF, U, S; Rm. 215, 914 Jefferson St., Boise, Idaho 83702.)
72. Cushman, R. V., Hydrology problems as related to wilderness management and water supplies for recreational areas at Mammoth Cave National Park, Kentucky: 16 p. (Wb; 310 Center Bldg., 522 W. Jefferson St., Louisville, Ky. 40202.)
73. Daniels, D. L., Additional infrared spectral emittance measurements of rocks from the Mono Craters region, California: 8 p., 4 figs., 1 table. (Wa, Da, M, F.)
74. Daniels, D. L., Infrared spectral emittance of rocks from the Pisgah Crater and Mono Craters areas, California: 5 p., incl. 3 p. charts. (Wa, Da, M.)
75. Danilchik, Walter, Source and size of the leakage zone of the natural dam, Lago Laja, Chile: 22 p., 1 pl., 8 figs. (Wa, Da, M.)
76. Davidson, C. B., Geochemical prospecting abstracts, January 1961-December 1962: 320 p., 24 p. index. (Wa, Da, M.)
77. Davidson, C. B., Markward, E. L., and Cieslewicz, John; Geochemical prospecting abstracts, July 1957-December 1960: 573 p., 46 p. index. (Wa, Da, M.)
78. Davis, M. E., Memorandum on availability of water having less than 2,500 parts per million dissolved solids in alluvium of Rio Grande near El Paso, Texas: 7 p., 2 figs. (Wb, T; 300 E. 8th Ave., Austin, Tex. 78701.)
79. Davis, M. E., and Leggat, E. R., Preliminary results of the investigation of the saline-water resources in the Hueco Bolson near El Paso, Texas: 27 p., 4 figs. (Wb, T; Federal Bldg., 300 E. 8th Ave., Austin, Tex. 78701.)
80. Davis, W. E., and Allen, R. V., Geophysical investigations of the Bahran gossan and Shaihab mine, Saudi Arabia: 2 p., 1 fig. (Wa; Library, Directorate General for Mineral Resources, Jiddah, Saudi Arabia.)
81. Davis, W. E., and Allen, R. V., Review of geophysical activities by the U.S. Geological Survey in Saudi Arabia, July 1965 to June 1966: 4 p. (Wa; Library, Directorate General for Mineral Resources, Jiddah, Saudi Arabia.)
82. Detterman, R. L., and Reed, B. L., Surficial deposits of the Iliamna quadrangle, Alaska: 1 map and explanation, scale 1:200,000. (Wa, Da, Db, M, A, S, SF, LA, T; Brooks Bldg., College, Alaska 99701; 441 Federal Bldg., Juneau, Alaska 99801; Alaska Div. of Mines and Minerals, 509 Gold-

- stein Bldg., Juneau, Alaska 99801, and 3001 Porcupine Dr., Anchorage, Alaska 99504.)
83. Dorrzapf, A. F., Jr., Spectrographic detection limits of the noble metals: 76 p., 28 tables. (Wa.)
  84. Doty, G. C., Supply well for Dona Ana Range Camp, Dona Ana County, New Mexico: 23 p., 6 figs. (Wb, Db, T, U; Geology Bldg., Univ. of New Mexico, Albuquerque, N. Mex. 87106.)
  85. Dunn, Bernard, Time-of-travel studies, Susquehanna River, Binghamton, New York to Athens, Pennsylvania: 29 p., 16 figs. (Wb; 341 Federal Bldg., Albany, N.Y. 12207.)
  86. Ege, J. R., Location of potential interest for fracturing oil shale with nuclear explosives for in situ retorting, Piceance Creek Basin, Rio Blanco County, Colorado: 8 p., 8 figs. (in pocket). (Wa, Da, Db, M, U, SF, LA; Library, Mackay School of Mines, Univ. of Nevada, Reno, Nev. 89507.)
  87. Ege, J. R., Carroll, R. D., and Welder, F. A. Preliminary report on the geology, geophysics and hydrology of USBM/AEC Colorado core hole No. 2, Piceance Creek Basin, Rio Blanco County, Colorado: 52 p., 12 figs., 8 tables. (Wa, Da, Db, M, U, LA, SF.)
  88. Elston, D. P., Accretion of the Murray carbonaceous chondrite and implications regarding chondrule and chondrite formation: 74 p., 13 figs., 3 tables. (Wa, Da, M, F.)
  89. Epstein, J. B., D'Agostino, J. P., Drake, A. A., Jr., and Lampiris, Nicholas, Preliminary log of exploratory hole drilled near Riegelsville, Pennsylvania: 2 p., 1 fig., 1 log. (Wa, Da, M; Bur. of Topog. and Geol. Survey, Dept. of Internal Affairs, Harrisburg, Pa. 17120.)
  90. Espenshade, G. H., Reconnaissance geologic map of the Yadkin Valley region, North Carolina: 2 sheets, scale 1:200,000. (Wa, Da, M; 11 Post Office Bldg., Knoxville, Tenn. 37902; Div. of Mineral Resources, Dept. of Conserv. and Devel., Raleigh, N.C. 27602.)
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