LIST OF PUBLICATIONS OF
OKLAHOMA GEOLOGICAL SURVEY
1902–1978

Compiled by

ELIZABETH A. HAM
and CLAREN M. KIDD

The University of Oklahoma
830 Van Vleet Oval, Room 163
Norman, Oklahoma 73019
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LIST OF PUBLICATIONS OF
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This publication, printed by the Oklahoma Geological Survey, is issued by the Oklahoma Geological Survey as authorized by Title 70, Oklahoma Statutes, 1971, Section 3310, and Title 74, Oklahoma Statutes, 1971, Sections 231-238. 1,000 copies have been prepared for distribution at a cost to the taxpayers of the State of Oklahoma of $2,064.
PREFACE

This list includes only publications prepared and published by the Oklahoma Geological Survey; its predecessor, the Oklahoma Territory Department of Geology and Natural History; and the 1923-24 interim Bureau of Geology. Some reports and maps issued by other organizations are also available through the Oklahoma Geological Survey. Information on in-print items offered, including prices, is published annually in the List of Available Publications, which can be obtained free on request at the address given on the front cover.

Entries marked herein with an asterisk (*) are currently out of print. Copies of most of these reports are stored at the Oklahoma Geological Survey, and most are included also in the collection at the Geology and Geophysics Library at The University of Oklahoma. Those reposited at The University of Oklahoma can be obtained on interlibrary loan upon request from your librarian to Bizzell Memorial Library, The University of Oklahoma, Norman, Oklahoma 73019. A collection is shelved also by the Oklahoma Department of Libraries, Allen Wright Memorial Library, 200 Northeast 18th Street, Oklahoma City, Oklahoma 73105. The larger geological libraries at universities and geological surveys throughout the country contain publications of the Oklahoma Geological Survey. Also, the Survey will provide single photocopies, at cost, of out-of-print publications.

Elizabeth A. Ham
Claren M. Kidd
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DEPARTMENT OF GEOLOGY AND NATURAL HISTORY, TERRITORY OF OKLAHOMA

The manuscript of the first biennial report of the pre-Statehood Oklahoma Territory Department of Geology and Natural History Survey was destroyed in a fire, and only an advance bulletin to the report was issued.

Provision for the establishment of a "State Geological and Economic Survey" was incorporated into the State Constitution, which was formulated in November 1907, and the Oklahoma Geological Survey as such came into being the following summer.


BULLETINS


*Bulletin 13. Volcanic dust in Oklahoma, by Frank Buttram. 1914. 49 pages, 1 figure, 8 plates.
PUBLICATIONS OF THE TERRITORIAL SURVEY (1900-1908)

DEPARTMENT OF GEOLOGY AND NATURAL HISTORY, TERRITORY OF OKLAHOMA

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BULLETINS


*Bulletin 13. Volcanic dust in Oklahoma, by Frank Buttram. 1914. 49 pages, 1 figure, 8 plates.


*Bulletin 16. The Ponca City oil and gas field, Oklahoma, by D. W. Ohern and Robert E. Garrett. 1912. 30 pages, 1 figure, 2 plates.


*Bulletin 18. The Cushing oil and gas field, Oklahoma, by Frank Buttram. 1914. 105 pages, 1 figure, 12 plates.


*Bulletin 21. The Neva limestone in northern Oklahoma, with remarks upon the correlation of the vertebrate fossil beds of the state, by J. W. Beede. 1914. 37 pages, 3 figures, 8 plates.


BULLETIN 28. Tripoli deposits in Oklahoma, by E. S. Perry. 1917. 32 pages, 1 figure, 11 plates.

BULLETIN 29. Travertine deposits of the Arbuckle Mountains, Oklahoma, with reference to the plant agencies concerned in their formation, by W. H. Emig. 1917. 76 pages, 5 figures, 15 plates.


BULLETIN 33. Geology of Love County, Oklahoma, by Fred M. Bullard. 1925. 77 pages, 1 figure, 30 plates.

BULLETIN 34. Index of Cimarron County, Oklahoma, by E. P. Rothrock, with a section on Dakota plants from Cimarron County, Oklahoma, by A. C. Noe. 1925. 110 pages, 3 figures, 24 plates.

BULLETIN 35. Index to the stratigraphy of Oklahoma, by Chas. N. Gould, with lists of characteristic fossils by Chas. E. Decker. 1925. 115 pages, 1 chart.

BULLETIN 36. Petroleum engineering in the Papoose oil field, by John R. Bunn, with a chapter on Geology of the Papoose oil field by Louis Roark. 1926. 61 pages, 6 figures, 5 plates.

BULLETIN 37. Geology of Texas County, Oklahoma, by Chas. N. Gould and John T. Lonsdale, with a chapter on Agriculture by H. H. Finnell, and a chapter on History of the County, by M. L. Wardell. 1926. 62 pages, 6 figures, geologic map, 10 plates.

BULLETIN 38. Geology of Beaver County, Oklahoma, by Chas. N. Gould and John T. Lonsdale, with sections on Fossil leaves, by E. W. Berry; Agriculture, by Ernest Slocum; and History by F. C. Tracy. 1926. 71 pages, 2 figures, 16 plates.

Bulletin 40. Oil and gas in Oklahoma. Issued as three volumes; titles of sections are given below.


The papers of these volumes were also issued as the following separates:


*40-B–Subsurface distribution and correlation of the pre-Chattanooga ("Wilcox" sand) series of northeastern Oklahoma, by Luther H. White. 1926. 23 pages, 2 plates.

*40-C–Oil and gas in Creek County, Oklahoma, by John W. Merritt and O. G. McDonald. 1926. 47 pages, 8 figures, 6 plates.

*40-D–Subsurface stratigraphy of western Oklahoma, by Frank C. Green. 1926. 14 pages, 2 plates.

*40-E–The geology of the oil and gas fields of Stephens County, Oklahoma, by Frank Gouin. 1926. 52 pages, 1 figure, 6 plates.

*40-F–Geology of Okmulgee County, Oklahoma, by Robt. W. Clark. 1926. 52 pages, 6 figures, 1 plate.


*40-H–Geology of Kay, Grant, Garfield, and Noble Counties, by G. C. Clark and C. L. Cooper. 1927. 44 pages, 1 figure, 6 plates.

*40-I–Geology of Caddo and Grady Counties, by Clyde M. Becker. 1927. 18 pages, 4 figures, 3 plates.


*40-K–Geology of Garvin County, Oklahoma, by Robt. H. Dott; and The Robberson Field, by Robert Roth. 1927. 52 pages, 7 figures, 8 plates.

*40-L–Geology of Wagoner County, Oklahoma, by J. Phillip Boyle. 1927. 18 pages, 6 figures, 2 plates.

*40-M–Geology of Beckham County, by Frank Gouin. 1927. 17 pages, 2 figures, 2 plates.

*40-N–Geology of Cleveland and McClain Counties, by G. E. Anderson. 1927. 18 pages, 1 figure, 2 plates.

*40-O–Geology of Kingfisher and Canadian Counties, by W. C. Kite. 1927. 13 pages, 2 figures, 1 plate.

*40-P–Structural trends in southern Oklahoma, by LaVerne Decker. 1927. 13 pages, 1 plate.
*40-Q-Digest of Oklahoma oil and gas fields, compiled by Bess Mills-Bullard. 1928. 188 pages, 1 plate.
*40-R-Atoka, Pushmataha, McCurtain, Bryan, and Choctaw Counties, by C. W. Honess. 1927. 32 pages, 3 figures.
*40-S-Geology of Pontotoc County, by R. A. Conkling. 1927. 27 pages, 5 figures, 1 plate.
*40-U-Geology of Rogers County, by E. G. Woodruff and C. L. Cooper. 1928. 24 pages, 3 figures, 2 plates.
*40-V-Geology of Washington County, by Everett Carpenter. 1927. 20 pages, 5 figures, 4 plates.
*40-W-McIntosh County, by Robert W. Clark. 1927. 14 pages, 1 figure, 4 plates.
*40-X-Payne County, by A. H. Koschman. 1927. 13 pages, 4 figures, 1 plate.
*40-Y-Harmon, Tillman, Jackson, and Greer Counties, by R. L. Clifton. 1927. 24 pages, 1 figure, 1 plate.
*40-Z-Carter County, by C. W. Tomlinson. 1928. 71 pages, 14 figures, 2 tables, 11 well logs.
*40-AA-Oklahoma petroleum--An industrial survey, by Chas. E. Bowles. 1928. 25 pages, 4 figures, 6 plates, 4 tables.
*40-BB-Geology of Seminole County, by A. I. Levorsen. 1928. 70 pages, 15 figures.
*40-CC-Geology of Pawnee County by Frank C. Greene. 1928. 28 pages, 8 figures, 3 plates.
*40-DD-Geology of Comanche County, by Frank Gouin. 1928. 25 pages, 1 figure, 2 plates.
*40-EE-Geology of Nowata and Craig Counties, by Edward Bloesch. 1928. 30 pages, 2 figures, 1 plate.
*40-FF-Geology of Muskogee County, by Hale B. Soyster and Thos. B. Taylor. 1928. 28 pages, 3 figures, 4 plates.
*40-GG-Geology of Logan County, by Hubert E. Bale. 1928. 18 pages, 2 figures, 2 plates.
*40-HH-Kiowa and Washita Counties, by Roger W. Sawyer. 1929. 15 pages, 1 figure, 2 plates.
*40-KK-Okfuskee County, by J. Phillip Boyle. 1929. 24 pages, 5 figures, 3 plates.
*40-LL-Johnston and Murray Counties, by F. A. Melton. 1930. 24 pages, 1 figure.
*40-MM-Cotton County, by W. F. Cloud. 1930. 21 pages, 2 figures, 1 plate.
*40-NN-Mayes, Ottawa, and Delaware Counties, by H. A. Ireland. 1930. 37 pages, 2 figures, 1 plate.
*40-OO-Love and Marshall Counties, by Fred M. Bullard and John S. Redfield. 1930. 30 pages, 5 figures, 1 plate.
*40-PP-Jefferson County, by John R. Bunn. 1930. 45 pages, 5 figures, 2 plates.
*40-QQ-Cherokee and Adair Counties, by Ira H. Cram. 1930. 60 pages, 4 figures, 3 plates.
*40-RR-Tulsa County, by W. F. Cloud. 1930. 29 pages, 4 figures, 3 plates.
*40-SS-Oklahoma County, by A. Travis. 1930. 32 pages, 7 figures, 3 plates.
*40-TT-Pottawatomie County, by T. E. Weirich. 1930. 15 pages, 6 figures.
*40-VV-Lincoln County, by Dollie Radler. 1930. 16 pages, 7 figures, 1 plate.
*40-WW-Beaver, Texas, and Cimarron Counties, by Ray L. Six. 1930. 35 pages, 4 figures, 5 plates.
*40-XX-Hughes County, by J. Phillip Boyle. 1930. 19 pages, 5 figures, 1 plate.


*Bulletin 43. Oil sands and production relations, by H. C. George and W. F. Cloud. 1927. 142 pages, 19 figures.

Bulletin 44. Age relations of the Carboniferous rocks of the Ouachita Mountains of Oklahoma and Arkansas, by H. D. Miser and C. W. Honess. 1927. 28 pages, 2 figures.

Bulletin 45. Fossiliferous boulders in the Ouachita "Caney" shale, and the age of the shale containing them, by E. O. Ulrich. 1927. 48 pages, 3 figures, 6 plates.


*Bulletin 52. Geology and petrology of the Wichita Mountains, by Malvin G. Hoffman. 1930. 82 pages, 4 figures, 22 plates.

*Bulletin 53. Micropaleontology of the Wetumka, Wewoka, and Holdenville formations, by A. S. Warthin, Jr. 1930. 94 pages, 1 figure, 8 plates.


*Bulletin 55. The stratigraphy and physical characteristics of the Simpson Group, by C. E. Decker and C. A. Merritt, with a section on Descriptions and illustrations of ostracodes and conodonts by R. W. Harris. 1931. 112 pages, 2 figures, 15 plates, and geologic map.


*Bulletin 57. Geology of the Muskogee-Forum district, Oklahoma, by C. W. Wilson, Jr., with a chapter on Carboniferous stratigraphy by N. D. Newell. 1937. 184 pages, 5 figures, 7 plates (including two-color geologic map), 10 tables.


*Bulletin 59. Geology and ground water resources of Texas County, Oklahoma, by Stuart L. Schoff. 1939. 248 pages, 13 figures, 5 plates, 12 tables.


*Bulletin 61. Traverse and leveling in Oklahoma. Part II—northwestern Oklahoma, compiled by N. E. Wolfard. 1940. 287 pages, 4 plates, 1 map.

*Bulletin 62. Geology and mineral resources of Washington County, Oklahoma, by M. C. Oakes. 1940. 208 pages, 19 figures, 3 plates (including geologic map), 18 tables.


*Bulletin 64. Geology and ground water resources of Cimarron County, Oklahoma, by S. L. Schoff, with a section on Mesozoic stratigraphy by J. W. Stovall. 1943. 317 pages, 27 figures, 23 plates (including 2 geologic maps), 24 tables.
Bulletin 65. Geology and glass sand resources, central Arbuckle Mountains, Oklahoma, by W. E. Ham. 1945. 103 pages, 4 figures, 10 plates, 13 tables.


√ Bulletin 67. Geology and mineral resources of Haskell County, Oklahoma, by M. C. Oakes and M. M. Knechtel. November 1948. 134 pages, 8 figures, 6 plates (including geologic map), 5 tables.

Bulletin 68. Geology and coal and natural gas resources of northern Le Flore County, Oklahoma, by M. M. Knechtel. November 1949. 76 pages, 1 figure, 7 plates (including geologic map), 3 tables.

*Bulletin 69. Geology and mineral resources of Tulsa County, Oklahoma, by Malcolm C. Oakes with sections on Oil and gas, by Glen S. Dille, and Water resources, by John H. Warren. 1952. 234 pages, 12 figures, 4 plates (including geologic map), 15 tables.

*Bulletin 70. Geology and mineral resources of Hughes County, Oklahoma, by O. D. Weaver, Jr. February 22, 1955. 150 pages, 13 figures, 4 plates (including geologic map), 6 tables.


√ Bulletin 73. Geology and ground water resources of Grady and northern Stephens Counties, Oklahoma, by L. V. Davis. July 8, 1955. 184 pages, 14 figures, 2 plates (including geologic map), 15 tables.


Bulletin 75. Ostracoda of the Simpson group, by R. W. Harris. June 1, 1957. 333 pages, 19 figures, 10 plates, 5 range charts.


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Bulletin 81. Geology and mineral resources of Creek County, Oklahoma, by Malcolm C. Oakes, with a section on Oil and gas in Creek County, Oklahoma, by Louise Jordan. December 12, 1959. 134 pages, 20 figures, 3 plates in map box (including geologic map in color), 10 tables.


Bulletin 83. Geology of Pawnee County, Oklahoma, by Paul B. Greig, Jr. October 27, 1959. 188 pages, 37 figures, 4 plates in map box (including geologic map in color), 7 tables.


Bulletin 86. Geology and ground-water resources of southern McCurtain County, Oklahoma, by Leon Davis. February 26, 1960. 108 pages, 19 figures, 1 plate (geologic map in color), 8 tables.


Bulletin 111. Geology and petroleum of McIntosh County, Oklahoma. Part I. Geology and mineral resources of McIntosh County by Malcolm C. Oakes and others. Part II. Petroleum geology of McIntosh County, by Terry Koontz. July 20, 1967. 88 pages, 13 figures, 4 plates (including geologic map), 5 tables.

Bulletin 112. Palynology of the Red Branch Member of the Woodbine Formation (Cenomanian), Bryan County, Oklahoma, by Richard Hedlund. October 14, 1966. 69 pages, 1 figure, 10 plates.


Bulletin 122. Geology and mineral resources (exclusive of petroleum) of Muskogee County, Oklahoma, by Malcolm C. Oakes. September 19, 1977. 78 pages, 8 figures, 2 plates (including color geologic map).


In July of 1923 the Oklahoma Geological Survey ceased to exist for the brief period of one year, owing to the veto of its appropriations by the then governor of Oklahoma, Jack Walton. The Bureau of Geology represents an attempt by C. W. Shannon, who had been director of the Survey, to keep the work going on a self-supporting basis. The following significant publications were issued during this interim:


*Bureau Monthly, Vol. 1, No. 1. April 1925. 28 pages. No further issues of this periodical were published.
CIRCULARS


*Circular 3. Oklahoma among the southern states, by Chas. N. Gould. 1911. 15 pages.


*Circular 6. Animal and plant life in Oklahoma. 1917. 68 pages, 1 plate.

*Circular 7. Correlation of the oil sands in Oklahoma, by Fritz Aurin. 1917. 16 pages, 1 plate (correlation chart).

*Circular 8. Methods of exploring for oil and gas, by George E. Burton. 1917. 20 pages, 2 figures, 2 plates.

*Circular 9. The Sycamore limestone, by C. L. Cooper. 1926. 27 pages, 4 figures, 5 plates (including geologic map).


*Circular 13. The Permian of western Oklahoma and the Panhandle of Texas, by Chas. N. Gould and Frank E. Lewis. 1926. 29 pages, 2 plates, 3 tables.

Circular 15. Physical characteristics of the Arbuckle limestone, by Charles E. Decker and Clifford A. Merritt. 1928. 56 pages, 2 figures, 5 plates.

*Circular 16. Oklahoma, the geologists' laboratory, by Chas. N. Gould. 1927. 16 pages, 7 plates.

*Circular 17. Preliminary report on road materials of western Oklahoma, by O. F. Evans. 1928. 19 pages, 1 figure, 1 plate.

*Circular 18. A comparative faunal chart of the Mississippian and Morrow formations of Oklahoma and Arkansas, by Robert Roth. 1929. 16 pages, 1 figure, 2 charts.

*Circular 19. Accelerated weathering properties of Oklahoma asphalts, by Paul G. Shelley. 1929. 37 pages, 1 figure, 5 plates, 3 tables.


*Circular 22. Progress report on the classification of the Timbered Hills and Arbuckle groups of rocks, Arbuckle and Wichita Mountains, Oklahoma, by Charles E. Decker. 1939. 62 pages, 1 figure, 5 plates (including geologic map), 1 table.


Circular 26. Geology and dolomite resources, Mill Creek-Ravia area, Johnston County, Oklahoma, by William E. Ham. 1949. 104 pages, 5 figures, 12 plates, 7 tables, geologic map.


Circular 28. Ground-water resources of the Arkansas River flood plain near Fort Gibson, Muskogee County, Oklahoma, by Stuart L. Schoff and Edwin W. Reed. 1951. 55 pages, 1 figure, 12 plates, 7 tables.

Circular 30. Ilmenite in alluvial sands of the Wichita Mountain system, Oklahoma, by Gerald W. Chase. 1952. 44 pages, 10 figures, 2 plates.


Circular 40. Geology of northeastern Osage County, Oklahoma, by W. F. Tanner. October 1956. 76 pages, 17 figures, 4 plates (including geologic map).

*Circular 41. Two measured sections of Jackfork group in southeastern Oklahoma, by L. M. Cline and Frank Moretti. October 1956. 20 pages.

Circular 42. Geology and gypsum resources of the Carter area, Oklahoma, by George L. Scott, Jr., and William E. Ham. September 1957. 64 pages, 5 figures, 8 plates (including geologic map).


Circular 45. A Pliocene vertebrate fauna from Ellis County, Oklahoma, by David B. Kitts. August 1957. 27 pages, 2 figures, 1 plate.


Circular 48. Cenozoic geology of northern Roger Mills County, Oklahoma, by David B. Kitts, with a section on A Pliocene vertebrate fauna from Roger Mills County, by David B. Kitts and Craig C. Black. July 1959. 48 pages, 11 figures, 2 plates (including geologic map).

Circular 49. Permian plant microfossils from the Flowerpot Formation, Greer County, Oklahoma, by L. R. Wilson. February 1962. 50 pages, 2 figures, 3 colored plates, 1 table.


Circular 58. Correlation of Paleozoic rocks from Coal County, Oklahoma, to Sebastian County, Arkansas, by Sherwood F. Frezon. February 1962. 53 pages, 1 figure, 2 plates, 1 table.


Circular 61. Ground-water resources of the Rush Springs Sandstone in the Caddo County area, Oklahoma, by Harry H. Tanaka and Leon V. Davis. May 1963. 63 pages, 11 figures, 2 plates (including geologic map), 10 tables.


Circular 64. Copper in the Flowerpot Shale (Permian) of the Creta area, Jackson County, Oklahoma, by W. E. Ham and Kenneth S. Johnson. February 1964. 32 pages, 10 figures, 2 plates, 3 tables.


Circular 68. Geology of northern Adair County, Oklahoma, by George G. Huffman, Jackson M. Langton, and James M. Hancock, Jr. February 1966. 50 pages, 21 figures, 1 plate (geologic map).
**Circular 69.** Geology of the Cenozoic rocks of Ellis County, Oklahoma, by David B. Kitts. June 1965. 30 pages, 5 figures, 1 plate (geologic map).

Circular 70. New Permian vertebrates from the Chickasha Formation in Oklahoma, by Everett C. Olson. December 1965. 70 pages, 5 figures, 8 plates, 2 tables.

**Circular 71.** Ground-water resources in Cleveland and Oklahoma Counties, Oklahoma, by P. R. Wood and L. C. Burton. April 1968. 75 pages, 8 figures, 2 plates (including geologic map), 9 tables.


**Circular 75.** Geology of the eastern part of the Lynn Mountain syncline, Le Flore County, Oklahoma, by Garrett Briggs. July 23, 1973. 34 pages, 13 figures, 1 plate (geologic map by Garrett Briggs and Donald L. Smith).


Circular 77. Stratiform copper deposits of the Midcontinent region, a symposium, Kenneth S. Johnson and Rosemary L. Croy, editors. Proceedings of a symposium held March 8, 1974, at the South-Central Section meeting of The Geological Society of America, held at Oklahoma State University, Stillwater. February 3, 1977. 10 papers, 3 abstracts, 99 pages, 99 figures, 4 plates, 13 tables.

Circular 78. Calceocrinids from the Bromide Formation (Middle Ordovician) of southern Oklahoma, by James C. Brower. November 11, 1977. 27 pages, 2 figures, 4 plates, 3 tables.

CONTROL SURVEY CIRCULARS

See also Bulletins 58 and 61

*Control Survey Circular 1. Traverse and leveling in central Oklahoma, compiled by N. E. Wolfard. 1940. 111 pages, 5 figures, 1 plate.

*Control Survey Circular 2. Traverse and leveling in south-central Oklahoma, compiled by N. E. Wolfard. 1941. 167 pages, 6 figures, 1 plate.

MINERAL REPORTS
(Series discontinued in 1959)

Mineral Report 1. Volcanic ash and tripoli, compiled by J. O. Beach. 1938. 27 pages, 1 plate (map), 3 tables.


Mineral Report 15. Carbonizing properties of McAlester bed coal from Dow No. 10 mine, Dow, Pittsburg County, Oklahoma, by Joseph D. Davis and D. A. Reynolds. 1942. 10 pages, 1 figure, 7 tables.


*Mineral Report 22. Ground water in the Pond Creek basin, Caddo County, Oklahoma, by Leon V. Davis. 1950. 23 pages, 5 figures, 1 plate (map), 6 tables.

Mineral Report 23. Oil possibilities near Idabel, McCurtain County, by L. V. Davis. 1953. 26 pages, 3 figures, 1 plate (map), 2 tables.


DIRECTOR'S REPORTS

(For earlier reports see section on Territorial Survey and also Bulletin 6, Bulletin 15, and Bulletin 22.)


*Director's Biennial Report for 1941-1942. Mineral resources and mineral industries, an outline for future development in Oklahoma, by Robert H. Dott. December 1942. 48 pages, 1 chart, 9 photographs, 2 tables.


Semi-Centennial Report


Subsequent reports of the director are included annually in Oklahoma Geology Notes.
GUIDEBOOKS

Guidebook Series

*Guidebook 1. Pre-Atokan rocks in western part of the Ozark uplift, northeastern Oklahoma, by George G. Huffman. April 1953. 41 pages, 23 figures, 7 graphic measured sections.


*Guidebook 12.* A guide to the State parks and scenic areas in the Oklahoma Ozarks, by George G. Huffman, Tyson A. Cathey, and James E. Humphrey. March 1963. 95 pages, 56 figures.

*Guidebook 13.* Sample descriptions and correlations for wells on a cross section from Barber County, Kansas, to Caddo County, Oklahoma, by W. L. Adkison and Mary G. Sheldon. September 1963. 139 pages, 2 figures, 1 table.


**Guidebooks for Geological Society of America Field Trips**

The following guidebooks were published by the Oklahoma Geological Survey in cooperation with the Geological Society of America for GSA field trips offered in connection with annual meetings as indicated.

[1] *The structure and igneous rocks of the Wichita Mountains, Oklahoma,* George T. Stone, editor, with articles by William E. Ham, Hugh E. Hunter, Clifford A. Merritt, and George T. Stone. April 1, 1967. 46 pages, 11 figures, 4 tables. Published in cooperation with University of Oklahoma School of Geology and Geophysics, Oil Information Center, and Oklahoma Geological Survey for 1st annual meeting of South-Central Section of GSA.


[4] Guidebook to the depositional environment of selected Pennsylvanian sandstones and carbonates of Oklahoma, by John W. Shelton and T. L. Rowland. March 7, 1974. 75 pages, 33 figures, 15 plates. Published in cooperation with Oklahoma Geological Survey and Oklahoma State University for field trip no. 3 of 8th annual meeting of South-Central Section of GSA.

[5] Plutonic igneous geology of the Wichita Magmatic Province Oklahoma, by Benjamin N. Powell and Joseph F. Fischer, with contributions by David W. Phelps and Martin A. Pruatt. February 26, 1976. 35 pages, 52 figures, 7 tables. Published by Oklahoma Geological Survey for field trip no. 2 of 10th annual meeting of South-Central Section of GSA.

**Highway Geology Symposium Guidebook**


**Industrial Field Trip Guides**

*[1]* Mineral resources field trip, Ada district, by W. E. Ham. November 30, 1945. 17 pages, 1 map.

*[2]* Mineral resources field trip, Wichita Mountain district, by William E. Ham. May 21, 1946. 14 pages, 1 map.


EDUCATIONAL PUBLICATIONS

Educational Publication 1. Geology and earth resources of Oklahoma—An atlas of maps and cross sections, by Kenneth S. Johnson, Carl C. Branson, Neville M. Curtis, Jr., William E. Ham, Melvin V. Marcher, and John F. Roberts. July 1972. 8 pages. Introductory text and 6 map sheets showing topography, geomorphic provinces, geology, mineral resources, oil and gas, and water resources, plus one sheet of cross sections.


MAPS

Miscellaneous Maps


*[4] Oil and gas maps, by Bess M. Bullard. 1926.

*[5] Oil and gas producing areas in Oklahoma, by Bess M. Bullard. 1928. Included in Bulletin 40-Q.

*[6] Topographic maps of lead and zinc area. Set of 4 topographic maps of part of northern Ottawa County. 1927 [March 1929]. Scale: 4 inches = 1 mile; contour interval: 10 feet.

*[7] Oil and gas map of Oklahoma. 1931.


[14] Map 4. Locations of all known or reported oil wells, gas wells, and dry holes drilled in Tulsa County and adjacent portions of Creek, Osage, Rogers, and Wagoner Counties, Oklahoma, prior to January 1, 1971.


Set of the following 6 maps of Oklahoma from Oklahoma Geological Survey Educational Publication 1. These maps have also been issued individually. 1972. Scale: 1:2,000,000.


[22] Generalized oil and gas map of Oklahoma, compiled by John F. Roberts.


Map A-2. Geologic map and sections of the Arbuckle Mountains, Oklahoma, by W. E. Ham and Myron E. McKinley. 1954 [1955]. Scale: 0.88 inch = 1 mile. (Same map as in Guidebook 17.)

Map A-3. Geologic map of northeastern Osage County, by W. F. Tanner. 1956. Scale: 1 inch = 1 mile. (Plate I of Circular 40.)
Map A-4. Geologic map of the Carter area, by George Scott, Jr. 1957. Scale: 2 inches = 1 mile. (Plate I of Circular 42.)

Map A-5. Geologic map of the Lake Altus area, Oklahoma, by C. A. Merritt. 1957. Scale: 2 inches = 1 mile. (Plate I of Bulletin 76.)

Map C-1. Geologic map of Washington County and parts of adjacent counties, Oklahoma, by Malcolm C. Oakes. Scale: 1 inch = 1 mile. (Same as map in Bulletin 62.)

Map C-2. Geologic map of Hughes County, Oklahoma, by O. D. Weaver, Jr. 1954. Scale: 1 inch = 1 mile. (Same as map in Bulletin 70.)

Map C-3. Geologic map of Okfuskee County, Oklahoma, by Edward R. Ries. 1954. Scale: 1 inch = 1 mile. (Same as map in Bulletin 71.)

Map C-4. Geologic map of Seminole County, Oklahoma, by William F. Tanner. 1956. Scale: 1 inch = 1 mile. (Same as map in Bulletin 74.)

Educational Series Maps

Discontinued map series which was superseded by maps in Educational Publication 1. The 5 maps listed below can be found in the Director's Semi-Centennial Report, 1958.


Geologic Map Series


Map GM-5. Geologic map and section of pre-Pennsylvanian rocks in Oklahoma, showing surface and subsurface distribution, by Louise Jordan. August 1962. Scale: 1:750,000.


Map GM-18. Stereoscopic and mosaic aerial-photograph study of the structure of the central Ouachita Mountains in Oklahoma and Arkansas, by Frank A. Melton. April 1976. One 4-color map sheet, with 3 maps at scales of 1:250,000, 1:125,000, and 1:62,500 each, showing principal structures visible from aerial photographs.
INDEX TO GEOLOGIC MAPPING

The index to geologic mapping in Oklahoma comprises three sets of maps, the original index and supplements 1 and 2. The index maps are of two types, one for surface mapping and one for subsurface and geophysical mapping. Each map is bibliographically indexed to published and unpublished sources.


Index to Geologic Mapping in Oklahoma--Supplement 1, by Carl C. Branson and Louise Jordan. October 1964. Two index maps: surface mapping from 1901 through 1963, and subsurface and geophysical mapping from 1961 through 1963. Scale 1:1,000,000.

MISCELLANEOUS PUBLICATIONS


*[4] Descriptive catalogue of the geological and mineralogical collections presented to colleges, normal schools and high schools of Oklahoma, by Fred M. Bullard. 1921. 12 mimeographed pages.


*[7] Facts about Oklahoma, by Fred M. Bullard. 1922. 16 pages.


*[17] Catalog of one hundred rocks, minerals, and fossils from Oklahoma, by W. M. Plaster. 1928.


[28] Underground water resources of Muskogee County, by J. O. Beach. 1936. 16 pages.


CATALOG


Supersedes Core Catalogs 1, 2, 3.
COAL REPORT

MINERAL PRODUCERS DIRECTORY

HYDROLOGIC ATLASES

The hydrologic atlas series is the result of a long-term cooperative investigation program between the Oklahoma Geological Survey and the Water Resources Division of the U.S. Geological Survey. When completed it will provide reconnaissance appraisals of nine 2° quadrangles of the State, excluding only the Panhandle region.

**Hydrologic Atlas 1.** Reconnaissance of the water resources of the Fort Smith quadrangle, east-central Oklahoma, by Melvin V. Marcher. October 27, 1969. Set of 4 maps (including geologic map), most at a scale of 1:250,000.

**Hydrologic Atlas 2.** Reconnaissance of the water resources of the Tulsa quadrangle, northeastern Oklahoma, by Melvin V. Marcher and Roy H. Bingham. August 19, 1971. Set of 4 maps (including geologic map), most at a scale of 1:250,000.

**Hydrologic Atlas 3.** Reconnaissance of the water resources of the Ardmore and Sherman quadrangles, southern Oklahoma, by Donald L. Hart, Jr. October 15, 1974. Set of 4 maps (including geologic map), most at a scale of 1:250,000.

**Hydrologic Atlas 4.** Reconnaissance of the water resources of the Oklahoma City quadrangle, central Oklahoma, by Roy H. Bingham and Robert L. Moore. June 3, 1975. Set of 4 maps (including geologic map), most at a scale of 1:250,000.

**Hydrologic Atlas 5.** Reconnaissance of the water resources of the Clinton quadrangle, west-central Oklahoma, by Jerry E. Carr and DeRoy L. Bergman. September 28, 1976. Set of 4 maps (including geologic map), most at scale of 1:250,000.

**Hydrologic Atlas 6.** Reconnaissance of the water resources of the Lawton quadrangle, southwestern Oklahoma, by John S. Havens. October 24, 1977. Set of 4 maps (including geologic map), most at a scale of 1:250,000.
OKLAHOMA ACADEMY OF SCIENCE ANNALS

Oklahoma Academy of Science Annals No. 2. Environmental aspects of
geology and engineering in Oklahoma, William D. Rose, editor. Pro-
ceedings of a symposium held December 4, 1970, at Oklahoma State
University, Stillwater. Published by the Oklahoma Geological Survey
in cooperation with the Oklahoma Academy of Science. December 1971.
8 papers, 70 pages, 32 figures, 4 tables.

Oklahoma Academy of Science Annals No. 5. Oklahoma Reservoir Resources,
Loren G. Hill and Robert C. Summerfelt, editors. Proceedings of a
symposium held in November 1974 at Southeastern Oklahoma State Uni-
versity, Durant. Published by the Oklahoma Geological Survey in
cooperation with the Oklahoma Academy of Science. March 1, 1976.
18 papers, 151 pages, 33 figures, 52 tables.
OKLAHOMA GEOLOGY NOTES AND THE HOPPER

Periodical publications of the Oklahoma Geological Survey containing short scientific and technical articles, mineral and petroleum statistics, the Director's annual report, news items, abstracts, and since 1958 an annual bibliography of Oklahoma geology.

The Hopper was issued monthly from 1941 through 1955; publication was continued thereafter as Oklahoma Geology Notes with volume numbers successive. From volume 16 through volume 27 Oklahoma Geology Notes was published 10 times a year under 12 issue numbers; since 1958 publication has been bimonthly, with issues numbered accordingly. All issues of The Hopper are out of print.

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C62, C77
GB6
GM-8
GSA-GS[4]
SCR
Payne
B1, B5, B6, B8, B18, B19, B27, B30, B40-X, B102
C77
BR(TS)2, BR(TS)3
CSC3
HA4
MR8, MR11, MR25, MR27, MR31, MR32,
MR34, MR36
SCR

Pittsburgh
B1, B4, B5, B6, B8, B17, B19, B23, B26, B27, B40-JJ, B44, B50, B51, B104
BR1935/36, BR1941/42
C36, C46, C53, C54, C72
CR
CSC2
GB6
GM-8, GM-17
GSA-GB[4]
HA1, HA3, HA4
HGS-P
MM[16], MM[17]
MR5, MR15, MR25, MR30, MR31, MR32,
MR34, MR36
SCR

Pontotoc
B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B12, B19, B24, B27, B30,
B40-S, B53, B55, B60, B65, B78,
B82, B84, B88, B94, B95, B96,
B100, B104, B108, B109, B115,
B116, B117, B119, B121, B123
BR1935/36, BR1941/42
C5, C9, C10, C11, C14, C15, C18,
C19, C22, C27, C38, C55, C58,
C72, C79
C(BG)2
CSC2
GB3, GB6, GB17
GM-8
GSA-GB[2]
HA3
IPTG[1], IPTG[3], IPTG[5]
Map A-2
MR2, MR3, MR4, MR5, MR8, MR25,
MR28, MR31, MR32, MR34, MR36
SCR

Pottawatomie
B1, B5, B6, B8, B19, B27, B30,
B40-TT, B121
B(BG)2
BR(TS)2, BR(TS)3
C23, C74
GB6
HA3, HA4
MR8, MR11, MR25, MR31, MR32,
MR34, MR36
SCR

Pushmataha
B5, B7, B8, B10, B19, B27, B40-R,
B44, B50, B85, B88, B120
BR1935/36
C5, C41, C75
C(BG)3
GM-8, GM-18
MM[1]
MR25, MR30, MR31, MR32, MR34
SCR

Roger Mills
B1, B5, B6, B8, B11, B19, B27,
B40-UU, B48, B60, B102, B114,
B121
BR1935/36
BR(TS)2
C13, C48
HA5
MR1, MR11
SCR

Rogers
B1, B2, B4, B5, B6, B8, B19,
B26, B27, B30, B40-U, B51,
B62, B96
BR1935/36, BR1947/48
C24, C31, C32, C54
CR
CSC3
GB2, GB6
GM-8, GM-17
HA2
MM[14], MM[16], MM[17]
MR2, MR5, MR24, MR31, MR32, MR34,
MR36
SCR
Seminole
B2, B5, B8, B19, B26, B27, B30, B36, B40-BB, B74, B96, B121
B(BG)2
GB6
HA3, HA4
Map C-4
SCR

Sequoyah
B1, B5, B6, B8, B19, B24, B27, B40-II, B60, B77, B88, B90, B94, B96, B105, B123, B125
BR1935/36, BR1947/48, BR1941/42
C36, C46, C47, C64, C58
CR
GB1, GB12, GB18
GM-8, GM-17
HA1
SCR

Stephens
B2, B5, B8, B19, B27, B30, B40-E, B48, B73, B79, B95
BR1935/36
C5, C23, C70
CSC2
GB6
GM-8
HA3, HA6
MR11, MR26, MR31, MR32, MR34, MR36
SCR

Texas
B1, B5, B6, B8, B19, B27, B30, B37, B40-WW, B47, B48, B59, B60, B114
BR1935/36, BR1947/48
C13, C27
GB6
MR1, MR5, MR25, MR31, MR32, MR34, MR36
SCR

Tillman
B5, B8, B19, B27, B30, B40-Y, B95
BR1935/36
C17, C23, C27, C74
GB6
GSA-GB[1], GSA-GB[3], GSA-GB[5]
HA6
SCR

Tulsa
B1, B2, B4, B5, B6, B8, B19, B26, B27, B40-RR, B51, B53, B60, B69, B96
BR1935/36, BR1941/42
C24, C31, C54, C55, C60
CR
CSC3
GB4, GB6
GM-17
HA, HA2, HA4
IFTG[4]
MM[11], MM[12], MM[13], MM[14]
SCR

Wagoner
B4, B5, B6, B7, B8, B19, B24, B27, B40-L, B51, B77
BR1935/36, BR1947/48
C24, C27, C31, C32, C36, C47, C54
CR6
CSC3
GB1, GB2, GB12, GB18
GM-17
HA1, HA2
MM[14], MM[16], MM[17]
MR1, MR5, MR25, MR31, MR32, MR34, MR36
SCR
Washington
B1, B4, B5, B6, B8, B19, B27,
B40-V, B47, B60, B62, B96, B107
BR1947/48
C55
CR
GB6
CM-8
HA2
Map C-1
MR2, MR5, MR11, MR31, MR32, MR34,
MR36
SCR

Washita
B1, B5, B6, B8, B11, B19, B27,
B30, B40-HH, B48, B49, B95,
B102, B114, B121
BR1935/36
BR(TS)2
C17, C27, C61, C79
HA5
MR1, MR6, MR8, MR11, MR31, MR32,
MR34, MR36
SCR

Woods
B1, B5, B6, B8, B11, B13, B19,
B27, B30, B40-A, B48, B98, B102,
B106, B114, B121
BR1935/36, BR1937/38
BR(TS)2
C13, C27, C79
EP3
MR1, MR6, MR8, MR25, MR29, MR31,
MR32, MR34, MR36
SCR

Woodward
B1, B5, B6, B8, B11, B19, B27,
B30, B40-A, B47, B49, B60, B98,
B102, B114, B121
BR1935/36
BR(TS)2
C13, C27, C79
EP3
GB15
MR1, MR6, MR25, MR29, MR31, MR32,
MR34, MR36
SCR
INDEX TO COMMODITIES

Aluminum
BR1935/36, BR1945/46
GM-15
SCR

Asphalitic Material (rock asphalt, petroleum-impregnated sandstone and limestone, asphaltite)
B1, B2, B3, B6, B8, B14, B15, B22, B27, B42, B77,
BR(BG)2
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44,
BR1945/46, BR1947/48
C3, C5, C19, C20, C29
EP1
ESM2
GB3, GB10, GB12, GB17
GM-1, GM-8, GM-15
IFTG[1], IFTG[3], IFTG[5]
MM[2]
MR13, MR25, MR26, MR27, MR30,
MR31, MR32, MR34, MR36

Barite
B14, B31
BR1935/36, BR1937/38, BR1941/42
C23, C29
GB10
GM-15

Bentonite
BR1935/36, BR1937/38, BR1947/48
EP1, EP3
ESM3
GB10
GM-1, GM-15
MM[21]
MR1, MR25, MR32, MR34, MR36
OAS-A2

Cement Materials
B1, B3, B15, B22, B24, B27, B42
BR(BG)2

Cement Materials--(continued)
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44, BR1945/46,
BR1947/48
BR(TS)3
C26, C29, C33, C76
EP1
GB5, GB10, GB12
GM-1, GM-15
MR5, MR13, MR16, MR24, MR25,
MR28, MR31, MR32, MR34, MR36
OAS-A2
SCR

Chat
B1
BR(BG)2
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44, BR1947/48
C29
EP1
ESM3
GB12
GM-1, GM-15,
MM[21]
MR13, MR25, MR34, MR36
SCR

Clay and Shale
B1, B7, B15, B22, B24, B27, B42,
B114, B120, B122, B126
BR(BG)2
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44, BR1945/46,
BR1947/48
BR(TS)2, BR(TS)3
C3, C29, C42, C68, C76
EP1, EP3
GB4, GB10
GM-1, GM-15
HGS-P
IFTG[1], IFTG[3], IFTG[4]
MR2, MR13, MR24, MR25, MR31, MR32,
MR34, MR36
OAS-A2
SCR
Coal
B1, B3, B4, B6, B12, B14, B15, B22, B27, B42, B51, B67, B68, B77, B122
B(BG)2
BR(TS)2, BR(TS)3
C24, C29, C32, C36, C50, C51, C53, C54
CR
EP1
ESM2
GB2, GB10, GB12
GM-1, GM-15, GM-17
MM[16], MM[17], MM[21]
OAS-42
SCR

Glass Sand
B1, B3, B10, B22, B23, B42, B65
B(BG)2
BR1935/36, BR1937/38, BR1939/40, BR1941/42, BR1943/44, BR1947/48
C3, C22, C29, C79
EP1
ESM3
GB3, GB10
GM-1, GM-15
IFTG[1], IFTG[3], IFTG[5]
MM[21]
SCR

Gold and Silver
B1, B3, B6, B12, B14, B22, B27, B42
BR(TS)2, BR(TS)3
OAS-A2

Copper
B1, B3, B6, B14, B22, B27, B42
BR(TS)2, BR(TS)3
C29, C64, C77
EP1
GM-15
MM[21]
MR8, MR13, MR27
OAS-A2

Dimension Stone
B1, B3, B23, B24, B26, B27, B42, B77, B114, B122
B(BG)2
BR1935/36, BR1937/38, BR1939/40, BR1941/42, BR1947/48
BR(TS)2, BR(TS)3
C3, C22, C29, C53, C68
EP1
ESM3
GB3, GB12
GM-1, GM-15
IPTG[1], IFTG[2]
MM[21]
SCR

Granite
B1, B3, B6, B8, B12, B14, B15, B20, B22, B27, B42, B52, B76, B95
BR1935/36, BR1937/38, BR1947/48
BR(TS)3
C3, C13, C29, C42, C64, C79
EP1, EP3
ESM3
GB5, GB8, GB10, GB15
GM-1, GM-15
GSA-GB[1]
IPTG[2], IFTG[5]
MM[2]
MR13, MR25, MR31, MR32, MR34, MR36
SCR

Gypsum
B1, B6, B11, B14, B15, B22, B27, B42, B92, B98, B102, B114
BR1935/36, BR1939/40, BR1941/42, BR1943/44, BR1945/46, BR1947/48
BR(TS)2
C3, C13, C29, C42, C64, C79
EP1, EP3
ESM3
GB5, GB8, GB10, GB15
GM-1, GM-15
MM[21]
OAS-A2
SCR
Helium
B14, B42
EP1
GM-15
MM[21]
OAS-A2

Iron
B1, B3, B6, B14, B22, B27, B42
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44,
BR1947/48
C22, C29, C30
EP1
GM-15
IFTG[1], IFTG[2]
MM[21]
MR4, MR13
OAS-A2

Lead and Zinc
B1, B3, B6, B9, B14, B15, B22,
B24, B27, B42, B56, B77
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44,
BR1945/46, BR1947/48
BR(TS)3
C3, C22, C29
EP1
ESM3
GB10, GB12
GM-1, GM-15
MM[6], MM[21]
MR13, MR25, MR31, MR32, MR34,
MR36
OAS-2
SCR

Lime (quicklime)
B15, B22, B24, B26, B27, B42,
B77
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44,
BR1945/46, BR1947/48
C26, C29, C33, C57, C68
GB10, GB12
GM-1, GB-15
MR2, MR5, MR13, MR16, MR25,
MR28, MR31, MR32, MR34, MR36
OAS-A2
SCR

Limestone and Dolomite
B1, B6, B8, B12, B14, B15, B22,
B23, B24, B26, B42, B49, B77,
B105, B114, B120, B122, B126
BR1935/36, BR1937/38, BR1939/40,
BR1941/42, BR1943/44, BR1945/46,
BR1947/48
BR(TS)3
C22, C26, C29, C33, C57, C76
EP1
ESM2
GB3, GB5, GB10, GB12, GB17, GB18
GM-1, GM-15
IFTG[1], IFTG[2], IFTG[3], IFTG[5]
MM[21]
MR5, MR6, MR13, MR16, MR25, MR28,
MR31, MR32, MR34, MR36
OAS-A2
SCR

Magnesia
BR1937/38, BR1941/42, BR1947/48
MR14

Manganese
B3, B14, B23, B27, B32, B42
BR1935/36, BR1937/38, BR1941/42,
BR1943/44, BR1945/46, BR1947/48
EP1
ESM3
GM-15
MM[21]
MR10, MR13, MR34, MR36
OAS-A2

Marble
B1, B6, B14, B15, B22, B27, B42
BR1935/36, BR1947/48
C29
MR13
SCR

Novaculite
B6, B22, B27, B42
BR1935/36, BR1937/38
C79
GB11
Petroleum and Natural Gas
B1, B2, B6, B14, B15, B16, B17, B18, B19, B22, B27, B30, B36, B40, B42, B43, B46, B63, B66, B69, B75, B77, B79, B80, B81, B89, B95, B99, B102, B105, B111, B121, B126
B(BG)2
BR(TS)2
C3, C7, C8, C10, C22, C29, C39, C42, C46, C47, C50, C53, C57, C58, C62, C63, C68
C(BG)2
EP1
ESM2
GB1, GB4, GB5, GB6, GB8, GB10, GB12, GB13, GB14
GM-1, GM-8, GM-10, GM-11, GM-12, GM-13, GM-16
IFTG[1], IFTG[3]
MM[4], MM[5], MM[7], MM[14], MM[15], MM[22]
OAS-A2
SCR

Salt
B1, B6, B11, B14, B15, B22, B27, B42, B102, B114
BR(TS)2
C3, C13, C29
EP1, EP3
ESM3
GB10, GB15
GM-1, GM-15
MM[21]
MR13, MR25, MR31, MR32, MR34, MR36
OAS-A2
SCR

Sand and Gravel
B1, B6, B8, B15, B22, B27, B42, B77, B114, B120, B122, B126
BR1935/36, BR1939/40, BR1941/42, BR1943/44, BR1945/46, BR1947/48
C17, C29, C42, C68, C79
EP1, EP3
ESM3
GB10, GB15
GM-1, GM-15
IFTG[1], IFTG[3], IFTG[5]
MM[21]
MR13, MR25, MR31, MR32, MF34, MR36
OAS-A2
SCR

Sandstone
B1, B3, B6, B8, B12, B14, B15, B22, B27, B42, B79, B114, B120, B122
B(BG)2
BR1935/36, BR1947/48
BR(TS)3
C29, C53, C68
GB10
GM-1, GM-15
MR13, MR25, MR31, MR32, MR34, MR36
SCR

Titanium
BR1941/42, BR1947/48
C30
EP1
MR36
OAS-A2
SCR
Tripoli
B1, B6, B22, B27, B28, B42, B77
BR1935/36, BR1939/40, BR1941/42, BR1943/44, BR1945/46, BR1947/48
C29, C79
EP1
ESM3
GB10, GB12
GM-1, GM-15
MM[21]
MR1, MR13, MR25, MR31, MR32, MR34, MR36
OAS-A2
SCR

Water
B14, B15, B22, B24, B27, B36, B42, B59, B64, B69, B72, B73, B77, B89, B91, B97, B114, B120, B122, B126
BR1935/36, BR1937/38, BR1941/42, BR1943/44, BR1945/46, BR1947/48 BR(TS)3
C3, C22, C25, C28, C42, C51, C57, C61, C68, C71
EP1
ESM5
GB1, GB5, GB12, GB15 GM-2
HA1, HA2, HA3, HA4, HA5, HA6 Map 72-2
MM[23]
MR11, MR18, MR19, MR20, MR21, MR22 OAS-A2, OAS-A5

Uranium
B114
C29
EP1
ESM2
GM-15
MM[21]
MR26, MR27, MR31, MR32, MR33, MR34, MR36
SCR

Volcanic Ash (pumice)
B1, B6, B13, B42, B114
C27, C29, C68
EP1, EP3
ESM3
GB10
GM-1, GM-15
MM[21]
MR1, MR13, MR25, MR31, MR32, MR34, MR36
OAS-A2
SCR