

# OKLAHOMA GEOLOGICAL SURVEY

The **Oklahoma Geological Survey**, a State research and public-service agency, was provided for in the Oklahoma Constitution and began operation on July 25, 1908, under an enabling act of the First Legislature. The OGS is responsible for investigating the geology and mineral resources of the State and for preparing and publishing bulletins, reports, and maps describing these investigations. The Survey has been placed under the direction of the Board of Regents of the University of Oklahoma for fiscal and administrative control.

The research activities of the Oklahoma Geological Survey are grouped into the following categories: geologic mapping, water-resources studies, mineral- and energy-resources investigations, geophysical research, environmental-geology studies, and basin research. The Survey also is involved in public information and assistance, acquisition of mineral-production data, and maintenance of a State repository of well cores and samples. Some activities, including water-resources studies and data acquisition, are conducted on cooperative bases with federal agencies.

The **Oklahoma Petroleum Information Center (OPIC)**, located at 2020 Industrial Boulevard in Norman, houses the OGS Publication Sales Office, the OGS Well Data Library, and the OGS Core and Sample Library. Other facilities at OPIC include a Conference Center for workshops and meetings, and equipment for analytical work on cores and samples. Offices are available for temporary use when examining data at the facility.

The **OGS Publication Sales Office** provides over-the-counter and mail-order purchases. In addition to its publications, the OGS maintains an extensive collection of open-file information mostly in the form of well records and unpublished reports and maps. PSO is also the contact point for OPIC-related activities.

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The **OGS Geophysical Observatory** monitors Oklahoma earthquakes, as well as those occurring worldwide. The Observatory records ground motion from six seismometers in an underground vault and three seismometers in a 770-meter-deep borehole. To supplement the system in detecting and locating Oklahoma earthquakes, the OGS has eight remote seismograph sites throughout Oklahoma. The Leonard facility operates one of 12 American magnetic observatories and other instrumentation. Group tours can be arranged by calling the Observatory.

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- MR4.** Iron ores, by C. A. Merritt. 38 pages, 1 figure (map). 1940; photocopy. \$1.50.
- MR5.** Limestone analyses, compiled by S. G. English, Robert H. Dott, and J. O. Beach. 28 pages, 3 tables, 1 map. 1940; photocopy. \$1.00.
- MR6.** Dolomite and magnesium limestone, compiled by J. O. Beach and S. G. English. 20 pages, 3 tables. 1940; photocopy. \$1.00.
- MR7.** A selected bibliography on the theories of the origin of oil, by Alan G. Skelton and Martha B. Skelton. 14 pages. 1940; photocopy. \$1.00.
- MR8.** Copper in the “red beds” of Oklahoma, by C. A. Merritt. 20 pages. 1940; photocopy. \$1.00.
- MR9.** Raw materials used in glass making, by Jay Randolph. 21 pages. 1941; photocopy. \$1.00.
- MR10.** Manganese deposits of Oklahoma, by C. A. Merritt. 36 pages, 4 figures. 1941; photocopy. \$1.50.
- MR12.** Carbonizing properties of Henryetta bed coal from Atlas No. 2 mine, Henryetta, Okmulgee County, Oklahoma (preliminary report), by Joseph D. Davis and D. A. Reynolds. 8 pages, 7 tables. 1941; photocopy. \$1.00.
- MR13.** Mineral production of Oklahoma 1885–1940, compiled by J. O. Beach. 38 pages, 9 figures. 1942; photocopy. \$1.00.
- MR14.** The possibility of magnesia from Oklahoma oil field brines, by A. L. Burwell. 26 pages, 1 plate, 6 tables. 1942; photocopy. \$1.00.
- MR15.** Carbonizing properties of McAlester bed coal from Dow No. 10 mine, Dow, Pittsburg County, Okla. (preliminary report), by Joseph D. Davis and D. A. Reynolds. 10 pages, 7 tables, 1 map. 1942; photocopy. \$1.00.
- MR16.** Geology and chemical composition of the St. Clair limestone near Marble City, Oklahoma, by W. E. Ham, R. H. Dott, A. L. Burwell, and M. C. Oakes. 24 pages, 2 plates. 1943; photocopy. \$1.60.
- MR19.** Ground water in Kingfisher County, Oklahoma, by Stuart L. Schoff. 23 pages, 1 plate. 1949; photocopy. \$1.00.

- MR20.** Ground-water supplies in the Oklahoma City area, Oklahoma, by C. L. Jacobsen and E. W. Reed. 21 pages, 2 plates. 1949; photocopy. \$1.30.
- MR21.** Ground water in the Cherokee area, Alfalfa County, Oklahoma, by Stuart L. Schoff. 17 pages, 1 plate. 1950; photocopy. \$1.00.
- MR22.** Ground water in the Pond Creek basin, Caddo County, Oklahoma, by Leon V. Davis. 23 pages, 5 figures, 1 map, 6 tables. 1950; photocopy. \$2.50.
- MR23.** Oil possibilities near Idabel, McCurtain County, Oklahoma, by Leon V. Davis. 26 pages, 3 figures, 1 map, 2 tables. 1953; photocopy. \$3.40.
- MR24.** Lightweight aggregates from certain Pennsylvanian shales, by A. L. Burwell. 20 pages, 1 plate, 7 tables. 1954; photocopy. Data on expansion of shales. \$1.20.
- MR25.** Mineral industry of Oklahoma in 1952, by F. F. Netzeband, W. E. Ham, and J. H. Warren. 26 pages, 7 tables. 1954; photocopy. Final production figures and outline of mineral industries in each county. \$1.00.
- MR26.** Occurrence of radioactive material in sandstone lenses of southwestern Oklahoma, by Gerald W. Chase. 7 pages, 1 plate. 1954. \$1.00.
- MR27.** Uranium in Oklahoma, 1955, by Carl C. Branson, A. L. Burwell, and G. W. Chase. (Supersedes MR26.) 22 pages, 2 maps. 1955; photocopy. \$1.30.
- MR28.** The Henryhouse marlstone in the Lawrence uplift, Pontotoc County, Oklahoma, and its commercial possibilities, by Albert L. Burwell. 21 pages. 1955; photocopy. Description and analyses of a source of hydraulic lime. \$1.00.
- MR29.** An investigation of industrial possibilities of Oklahoma gypsum and anhydrite, by Albert L. Burwell. 21 pages. 1955; 2nd printing, 1980; photocopy. Occurrences and uses of gypsum and anhydrite. \$1.00.
- MR30.** Asphaltite in the Ouachita Mountains of southeastern Oklahoma, by William E. Ham. 12 pages, 1 map. 1956; photocopy. \$1.00.
- MR31.** The mineral industries of Oklahoma in 1954 and 1955, by P. E. Tribble, F. F. Netzeband, and W. E. Ham. 13 pages, 3 tables. 1956; photocopy. \$1.00.
- MR32.** The mineral industries of Oklahoma in 1955 and 1956, by Peter Grandone and William E. Ham. 13 pages, 3 tables. 1957; photocopy. \$1.00.
- MR33.** Uranium-bearing carbonaceous nodules of southwestern Oklahoma, by James W. Hill. 6 pages, map. 1957; photocopy. \$1.00.
- MR34.** The mineral industries of Oklahoma in 1956 and 1957, by Peter Grandone and William E. Ham. 24 pages. 1958; photocopy. \$1.00.
- MR35.** Gypsum in the Weatherford–Clinton district, Oklahoma, by William E. Ham and Neville M. Curtis, Jr. 32 pages, 2 plates. 1958; photocopy. \$2.90.
- MR36.** The Mineral Industries of Oklahoma in 1957, Final Summary, by Peter Grandone, L. E. Edwards, and William E. Ham. 1959; photocopy. \$1.20.

## GUIDEBOOKS

(See also listings under Educational Publications  
and Special Publications.)

- GB6.** Subsurface stratigraphic names of Oklahoma, by Louise Jordan. 220 pages, 212 figures. 1957; 6th printing, 1987. \$7.00.
- GB10.** Common minerals, rocks, and fossils of Oklahoma, by W. E. Ham and N. M. Curtis, Jr. 28 pages, 28 figures, 2 tables. 1960; 9th printing, 1999. \$1.00.
- GB15.** Guide to Alabaster Cavern and Woodward County, Oklahoma [revised edition], by Arthur J. Myers, Arrell M. Gibson, Bryan P. Glass, and Carol R. Patrick. 38 pages, 41 figures. 1969; 7th printing, 1994. \$1.00.
- GB19.** Mississippian–Pennsylvanian shelf-to-basin transition, Ozark and Ouachita regions, Oklahoma and Arkansas (Patrick K. Sutherland and Walter L. Manger, editors). GB for field trip no. 11, May 27–June 1, 1979, Ninth International Congress of Carboniferous Stratigraphy and Geology. 72 pages, 116 figures. 1979; 2nd printing, 1982. \$4.00.
- GB20.** Lower and Middle Pennsylvanian stratigraphy in south-central Oklahoma (Patrick K. Sutherland, editor). GB for field trip no. 2, March 27–28, 1982, Geological Society of America, South-Central Section meeting. 44 pages, 58 figures. 1982. \$5.00.
- GB21.** Geology of the eastern Wichita Mountains, southwestern Oklahoma (M. Charles Gilbert and R. Nowell Donovan, editors). GB for field trip no. 1, March 26–28, 1982, Geological Society of America, South-Central Section meeting. 160 pages, 165 figures, 43 tables. 1982; 2nd printing, 1991. \$10.00.
- GB22.** Guide to Robbers Cave State Park, by Arthur J. Myers, Dearl T. Russell, George J. Goodman, and Cheryl A. Lawson. 48 pages, 29 figures, 1 plate. 1986. \$5.00.
- GB23.** Petrology of the Cambrian Wichita Mountains igneous suite (M. Charles Gilbert, editor). GB for field trip no. 7, November 7–9, 1986, Geological Society of America 99th annual meeting. 196 pages, 176 figures, 24 tables. 1986. \$12.00.
- GB25.** Shelf-to-basin geology and resources of Pennsylvanian strata in the Arkoma basin and frontal Ouachita Mountains of Oklahoma (Kenneth S. Johnson, editor). GB for field trip held October 1, 1988, American Institute of Professional Geologists, 25th annual national meeting. 105 pages, 67 figures, 3 tables. 1988. \$13.00.
- GB26.** Geology of the Arbuckle Mountains along Interstate 35, Carter and Murray Counties, Oklahoma [revised edition], by Robert Oran Fay. Prepared in cooperation with the Ardmore Geological Society. 50 pages, 20 figures, 1 plate. 1989; 2nd printing, 1995. \$6.00.

- GB28.** Geology of the Wister State Park area, Le Flore County, Oklahoma, by LeRoy A. Hemish. 28 pages, 32 figures, 1 plate. 1993. \$5.00.
- GB29.** Geology and resources of the eastern frontal belt, Ouachita Mountains, and southeastern Arkoma basin, Oklahoma (Neil H. Suneson and LeRoy A. Hemish, editors). GBfor field trip held November 15–17, 1994, in Poteau, Oklahoma. 294 pages. 1994. \$16.00.
- GB30.** Stratigraphy and resources of the Krebs Group (Desmoinesian), south-central Arkoma basin, Oklahoma, by LeRoy A. Hemish and Neil H. Suneson. GBfor field trip held September 13–14, 1997, American Association of Petroleum Geologists, Mid-Continent Section meeting. 83 pages. 1997. \$6.00.
- GB31.** Geology of the Hartshorne Formation, Arkoma basin, Oklahoma, by Neil H. Suneson. 73 pages, 70 figures, 4 tables, 1 color plate. 1998. \$6.00.
- GB32.** Stratigraphy and depositional environments of the sandstones of the Springer Formation and the Primrose Member of the Golf Course Formation in the Ardmore basin, Oklahoma, by LeRoy A. Hemish and Richard D. Andrews. 37 pages, 40 figures. 2001. \$5.00.
- GB33.** Stratigraphy and facies relationships of the Hunton Group, northern Arbuckle Mountains and Lawrence uplift, Oklahoma, by Thomas M. Stanley. 73 pages, 54 figures, 4 tables, 1 color plate. 2001. \$8.00.
- GB34.** Stratigraphic and structural evolution of the Ouachita Mountains and Arkoma basin, southeastern Oklahoma and west-central Arkansas: applications to petroleum exploration, by Neil H. Suneson, Ibrahim Çemen, Dennis R. Kerr, Michael T. Roberts, Roger M. Slatt, and Charles G. Stone. 128 pages, 104 figures, 9 tables, 3 plates. 2005. \$12.00.
- GB35.** Guidebook to the Booch Sandstones: Surface to Subsurface Correlations, by Neil H. Suneson and Dan T. Boyd. 96 pages, 112 figures. 2008. \$11.00

## Educational Publications

(Nontechnical publications for teachers, students,  
and the general public.)

- EP3.** Northwest Oklahoma. Book II of Guidebook for geologic field trips in Oklahoma, by Kenneth S. Johnson. 42 pages, 54 figures, 26 field-trip sites. 1972; 5th printing, 1999. \$2.00.
- EP4.** Guidebook for geologic field trips in north-central Oklahoma, by John D. Naff. 42 pages, 52 figures, 43 field-trip sites. 1981. \$3.00.
- EP5.** Guide to resources for earth science information in Oklahoma, by Neil H. Suneson. 76 pages. 1996. \$4.00.
- EP6.** Oklahoma generalized geologic time scale—the story told by rocks, by James R. Chaplin. Full-color, 22×34-in. poster. 1999; 2nd printing, 2001. \$4.00, laminated and rolled in tube.
- EP7.** Reading topographic maps—activities for earth science teachers and students, by James R. Chaplin. 82 pages. 2001. Three-ring binder, \$12.00.
- EP8.** Oklahoma geology for earth science teachers/students grades 6–12, by James R. Chaplin. 104 pages. 2003. Three-ring binder, \$15.00.
- EP9.** Earth Science and Minerals Resources of Oklahoma, by Kenneth S. Johnson and Kenneth V. Luza, Editors. 21 pages. \$8.00.

# GEOLOGIC MAPS

- Geologic map of Oklahoma.** By H. D. Miser. Scale 1:500,000. In 2 sheets. 1954. \$9.00, rolled (shipped in tube) (also listed on page 41).
- GM2.** Map showing ground-water reservoirs of Oklahoma, by S. L. Schoff. Scale 1:750,000, in 2 colors. 1955. \$1.00, rolled (mailed in tube).
- GM3.** Tectonic map of Oklahoma, by J. Kaspar Arbenz. Scale 1:750,000. 1956. \$1.50, rolled (shipped in a tube).
- GM8.** Petroleum-impregnated rocks and asphaltite deposits of Oklahoma, by Louise Jordan. Scale 1:750,000. Explanatory text, 16 pages. 1964; 3rd printing, 1983. \$2.00, folded in envelope.
- GM9.** Geologic map and section of pre-Woodford rocks in Oklahoma, showing surface and subsurface distribution, by Russell S. Tarr, Louise Jordan, and T. L. Rowland. Scale 1:750,000. 1965; 2nd printing, 1983. \$4.00, folded in envelope.
- GM16.** Vertical-intensity magnetic map of McClain and southern Cleveland Counties, central Oklahoma, by John A. E. Norden, John L. Bedwell, Arthur J. Blair II, Carl B. Kaupp III, John W. Marchetti, Jr., and J. M. Markas. Magnetic contours printed in red; contour interval, 10 gammas. Oil and gas fields in green and pink. Scale 1:63,360 (1 in. = 1 mi). 1972. \$2.00, folded in envelope.
- GM18.** Stereoscopic and mosaic aerial-photograph study of the structure of the central Ouachita Mountains in Oklahoma and Arkansas, by Frank A. Melton. One 4-color map sheet, with 3 maps at scales 1:250,000, 1:125,000, and 1:62,500 each, showing principal structures visible from aerial photographs. 1976. \$5.00, folded in envelope.
- GM20.** Geologic map of Southwest Davis Zinc Field, Arbuckle Mountains, Oklahoma, compiled by Robert O. Fay. One 4-color map sheet at a scale of 1:7,920, with 16-page explanatory text. 1981. \$7.00, folded in envelope.
- GM21.** Index to surface geologic mapping in Oklahoma (through 1976), compiled by J. F. Roberts, K. V. Luza, and J. A. Corff. 2 sheets, scale 1:750,000. 1981. \$4.00, folded in envelope.
- GM23.** Map showing potentially strippable coal beds in eastern Oklahoma, by Samuel A. Friedman. 4 color sheets (plates 1–4), scale 1:125,000. Prepared in cooperation with Oklahoma Department of Mines. 1982. \$5.00, folded in envelope.
- GM24.** Map of eastern Oklahoma showing locations of active coal mines, 1977–79, compiled by Samuel A. Friedman. Includes tabulation of coal mines and coal data. Scale 1:500,000. 1982. \$3.00, folded in envelope.
- GM25.** Map of Oklahoma showing localities of reported uranium and radioactivity values, compiled by Matthew W. Totten and Robert O. Fay. Includes tabulation of reported stratigraphic occurrences keyed to map (scale 1:750,000) and an

explanatory 16-page text with an annotated bibliography. 1982. \$4.00, folded in envelope.

- GM26.** Indexes to surface and subsurface geologic mapping in Oklahoma, 1977–1979, compiled by Kenneth V. Luza, Elizabeth A. Ham, and Philip R. Sanders. 2 sheets, scale 1:750,000. 1983. \$4.00, folded in envelope.
- GM27.** Geothermal resources and temperature gradients of Oklahoma, compiled by Kenneth V. Luza, William E. Harrison, George A. Laguros, M. Lynn Prater, and Paul K. Cheung. Scale 1:500,000. Prepared in cooperation with National Oceanic and Atmospheric Administration and U.S. Department of Energy. 1984. \$2.00, folded in envelope.
- GM28.** Map of Oklahoma oil and gas fields, compiled by Margaret R. Burchfield. Color map showing outlines of 3,083 active fields and 35 abandoned fields. List of names and locations of all fields. Scale 1:500,000. 1985; 2nd printing, 1989; revised supplement, 1997. \$6.00, folded in envelope.
- GM29.** Index to subsurface geologic mapping in Oklahoma, 1940–1966 [second edition], compiled by Louise Jordan and John F. Roberts. 6 color sheets (plates 1–6), scale 1:1,000,000. 1986. \$5.00, folded in envelope.
- GM30.** A stratigraphic and structural study of the Eram coal and associated strata in eastern Okmulgee County and western Muskogee County, Oklahoma, by LeRoy A. Hemish, assisted by Kenneth N. Beyma. 1 sheet, scale 1:31,680, accompanying text. 1988. \$3.00, folded in envelope.
- GM32.** Radon-potential map of Oklahoma, by James R. Flood, Tom B. Thomas, Neil H. Suneson, and Kenneth V. Luza. 1 sheet, scale 1:750,000, accompanying text. 1990. \$5.00, folded in envelope.
- GM33.** Coal geology of Tulsa, Wagoner, Creek, and Washington Counties, Oklahoma, by LeRoy A. Hemish. 3 sheets (plates 1–5), scale 1:63,360, accompanying text, separate 117-page appendixes. 1990. \$13.00, folded in envelope.
- GM34.** Pre-Woodford subcrop map of the Anadarko basin, western Oklahoma and Texas Panhandle, by Thomas W. Amsden and James E. Barrick. 2 sheets, scale 1:500,000, accompanying text. 1993. \$8.00, folded in envelope.
- GM35.** Earthquake map of Oklahoma (with text), by James E. Lawson, Jr., and Kenneth V. Luza. Earthquakes shown through 1993. One 4-color map sheet intended for use as a guide only to earthquake intensity and epicentral locations. Scale 1:500,000. Explanatory text, inventory, detection, and catalog of Oklahoma earthquakes. 1995. \$6.00, folded in envelope.
- GM36.** Oklahoma oil and gas fields (distinguished by GOR and conventional gas vs. coalbed methane), by Dan T. Boyd. One 4-color map sheet at a scale of 1:500,000; 128-page explanatory text and 3 tables. 2002. \$8.00, folded in envelope.

**GM37.** Oklahoma oil and gas fields (distinguished by coalbed methane and field boundaries), by Dan T. Boyd. One 4-color map sheet at a scale of 1:500,000; 128-page explanatory text and 3 tables. 2002. \$8.00, folded in envelope.

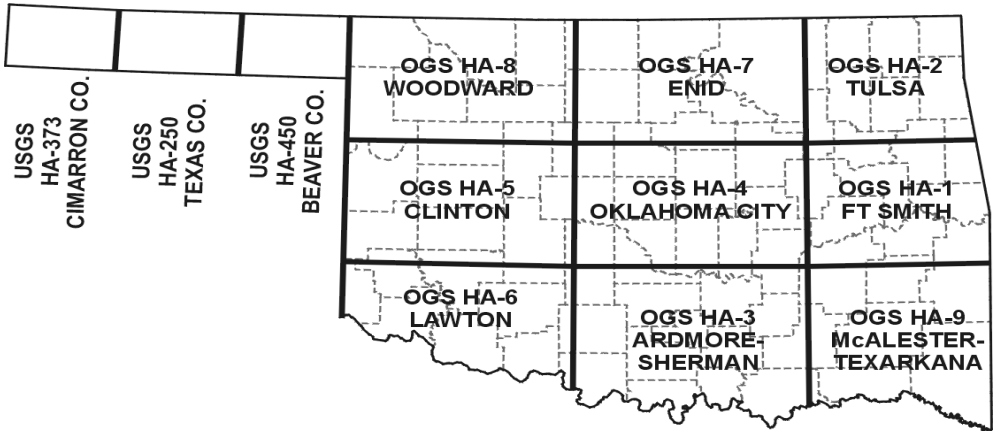
**GM38.** Oklahoma oil and gas fields (by reservoir age), by Dan T. Boyd. One 4-color map sheet at a scale of 1:500,000. 2002. \$4.00, folded in envelope.

# HYDROLOGIC ATLASES

(Each atlas includes a geologic map.)

The Hydrologic Atlas series is the result of a cooperative investigation program between the Oklahoma Geological Survey and the U.S. Geological Survey for the State of Oklahoma. The atlases are designed to provide reconnaissance appraisals on water resources of the State, exclusive of the Panhandle.

## INDEX TO STATE OF OKLAHOMA HYDROLOGIC ATLASES



**HA1.** Reconnaissance of the water resources of the Fort Smith quadrangle, east-central Oklahoma, by Melvin V. Marcher. Set of 4 maps (including geologic map), scale 1:250,000. 1969; 2nd printing, 1988. \$6.00 per set, folded in envelope.

**HA2.** Reconnaissance of the water resources of the Tulsa quadrangle, north-eastern Oklahoma, by Melvin V. Marcher and Roy H. Bingham. Set of 4 maps (including geologic map), scale 1:250,000. 1971; 2nd printing, 1989. \$6.00 per set, folded in envelope.

**HA3.** Reconnaissance of the water resources of the Ardmore and Sherman quadrangles, southern Oklahoma, by Donald L. Hart, Jr. Set of 4 maps (including geologic map), most at a scale of 1:250,000. 1974; 2nd printing, 1983. \$6.00 per set, folded in envelope.

**HA4.** Reconnaissance of the water resources of the Oklahoma City quadrangle, central Oklahoma, by Roy H. Bingham and Robert L. Moore. Geologic map only at a scale of 1:250,000. 1975; 2nd printing, 1983; 3rd printing, 1991; 4th printing, 2004. \$3.00, folded in envelope.

- HA5.** Reconnaissance of the water resources of the Clinton quadrangle, west-central Oklahoma, by Jerry E. Carr and DeRoy L. Bergman. Set of 4 maps (including geologic map), most at a scale of 1:250,000. 1976. \$6.00 per set, folded in envelope.
- HA6.** Reconnaissance of the water resources of the Lawton quadrangle, southwestern Oklahoma, by John S. Havens. Set of 4 maps (including geologic map), most at a scale of 1:250,000. 1977. \$6.00 per set, folded in envelope.
- HA7.** Reconnaissance of the water resources of the Enid quadrangle, north-central Oklahoma, by Roy H. Bingham and DeRoy L. Bergman. Set of 4 maps (including geologic map), most at a scale of 1:250,000. 1980. \$6.00 per set, folded in envelope.
- HA8.** Reconnaissance of the water resources of the Woodward quadrangle, northwestern Oklahoma, by R. B. Morton. Set of 4 maps (including geologic map), most at a scale of 1:250,000. 1980. \$6.00 per set, folded in envelope.
- HA9.** Reconnaissance of the water resources of the McAlester and Texarkana quadrangles, southeastern Oklahoma, by Melvin V. Marcher and DeRoy L. Bergman. Set of 4 maps (including geologic map), most at a scale of 1:250,000. 1983. \$6.00 per set, folded in envelope.

## SPECIAL PUBLICATIONS

Special Publications are issued by the Oklahoma Geological Survey or by the OGS in cooperation with other agencies. Each is listed according to the year of publication and the order it was published. Gaps in the series occur when no Special Publications were issued that year, or when a publication is out of print.

- SP74-1.** Guidebook to the depositional environments of selected Pennsylvanian sandstones and carbonates of Oklahoma, by John W. Shelton and T. L. Rowland. Guidebook originally published for field trip no. 3, Geological Society of America, South-Central Section, 1974 annual meeting; reprinted for field trip no. 1, American Association of Petroleum Geologists, Mid-Continent Section, 1981 biennial meeting. Published in cooperation with Oklahoma State University. 75 pages, 33 figures, 15 plates. 1974; 4th printing, 1992. \$5.00.
- SP74-2.** An investigation of the coal reserves in the Ozarks section of Oklahoma and their potential uses, by S. A. Friedman. Final report to the Ozarks Regional Commission: distributed by permission of the commission. 117 pages, 24 figures, 77 tables. 1974; 5th printing, 1981. \$4.00.
- SP81-1.** Reservoir and fluid characteristics of selected oil fields in Oklahoma, compiled by W. E. Harrison and D. L. Routh. 317 pages, index maps. 1981; 3rd printing, 1983. \$8.00.
- SP81-2.** Bibliography of abandoned coal-mine lands in Oklahoma, compiled by K. S. Johnson, C. M. Kidd, and R. C. Butler. 84 pages, 1 figure. 1981; 2nd printing, 1982. \$3.50.
- SP81-3.** Seismicity and tectonic relationships of the Nemaha uplift in Oklahoma—Part III, by K. V. Luza and J. E. Lawson, Jr. 70 pages, 23 figures, 4 tables. 1981; 3rd printing, 1984. \$4.00.
- SP81-4.** Evaluation of heavy-oil potential of northeastern Craig and northwestern Ottawa Counties, Oklahoma, by William E. Harrison, John F. Roberts, and Larman J. Heath. 46 pages, 20 figures, 2 tables. 1981; 2nd printing, 1984. \$4.00.
- SP81-5.** Combined bibliographies of Oklahoma geology (in 2 vols.: vol. 1, 1955–70; vol. 2, 1971–79), compiled by Elizabeth A. Ham and Christine D. Gay. 425 pages. (Available only as a set.) 1981. \$8.00.
- SP82-1.** Seismicity and tectonic relationships of the Nemaha uplift in Oklahoma—Part IV, by K. V. Luza and J. E. Lawson, Jr. 52 pages, 12 figures, 6 tables. 1982. \$4.00.
- SP82-2.** Bibliography and index of Oklahoma geology, 1980, compiled by Elizabeth A. Ham. 20 pages. 1982. \$2.00.
- SP82-3.** Determination of reserves of methane from coal beds for use in rural communities in eastern Oklahoma, by Samuel A. Friedman. 32 pages, 7 figures, 2 tables. 1982; 2nd printing, 1989. \$4.00.

- SP82-4.** Proceedings of the Second International Conference on Geological Information (Claren M. Kidd, editor). Proceedings of a conference held May 23–27, 1982, in Golden, Colorado, sponsored by 5 national and international organizations. In 2 volumes; 427 pages. (Available only as a set). 1982; 2nd printing, 1983. \$10.00.
- SP82-5.** An evaluation of water resources for enhanced oil recovery operations, Cement field, Caddo and Grady Counties, Oklahoma, by Donald A. Preston, William E. Harrison, Kenneth V. Luza, M. Lynn Prater, and Raja J. Reddy. 64 pages, 12 figures, 5 plates, 9 tables. 1983. \$10.00.
- SP83-1.** Geothermal resource assessment in Oklahoma, by William E. Harrison, Kenneth V. Luza, M. Lynn Prater, and Paul K. Cheung. 42 pages, 11 figures, 3 plates, 1 table. 1983. \$8.00.
- SP83-2.** A history of the Oklahoma Geological Survey, 1908–1983, by Elizabeth A. Ham. 60 pages, 36 figures. 1983. \$4.00.
- SP85-1.** Expected earthquake ground-motion parameters at the Arcadia, Oklahoma, dam site, by James E. Lawson, Jr. 43 pages, 3 figures, 7 tables. 1985. \$3.00.
- SP85-2.** Seismicity and tectonic relationships of the Nemaha uplift and Midcontinent gravity anomaly (final project summary), by R. R. Burchett, K. V. Luza, O. J. Van Eck, and F. W. Wilson. 37 pages, 5 figures, 2 plates. 1985. \$7.00.
- SP85-3.** List of publications of the Oklahoma Geological Survey, 1902–1984, compiled by Elizabeth A. Ham and Claren M. Kidd. 83 pages. 1985. \$5.00.
- SP86-1.** Oil-oil and oil-rock correlations: a chemist's perspective, by Jane L. Weber. 51 pages, 5 figures. 1986. \$3.00.
- SP86-2.** Temperature-gradient information for several boreholes drilled in Oklahoma, by William E. Harrison and Kenneth V. Luza. 42 pages, 18 figures, 7 tables. 1986; 2nd printing, 1999. \$3.00.
- SP86-3.** Oil generation in the Anadarko basin, Oklahoma and Texas: modeling using Lopatin's method, by James W. Schmoker. 40 pages, 18 figures, 1 table. 1986; 2nd printing, 1999. \$3.00.
- SP86-4.** The relationship between coal rank and present geothermal gradient in the Arkoma basin, Oklahoma, by Brian J. Cardott, LeRoy A. Hemish, Charles R. Johnson, and Kenneth V. Luza. 65 pages, 16 figures, 2 plates, 3 tables. 1986. \$7.00.
- SP87-1.** Investigation of the Meers fault, southwestern Oklahoma, by Kenneth V. Luza, Richard F. Madole, and Anthony J. Crone. 75 pages, 22 figures, 2 plates, 1 table. 1987. \$4.00.
- SP87-2.** Physical and chemical characteristics of water in coal-mine ponds, eastern Oklahoma, June to November 1977–81, by Larry J. Slack and Stephen P. Blumer. 116 pages, 159 figures, 6 tables. 1987. \$4.00.
- SP88-2.** Report of core-drilling by the Oklahoma Geological Survey in Pennsyl-

vanian rocks of the northeastern Oklahoma coal belt, 1983–86, by LeRoy A. Hemish. 174 pages, 7 figures. 1988. \$7.00.

- SP88-3.** Proceedings of the First Conference on Oil and Gas Information and Data-Base Management, coordinated by Michelle J. Summers. Proceedings of a conference held October 20–21, 1987, in Norman, Oklahoma; cosponsored by the Oklahoma Geological Survey and U.S. Department of Energy. 266 pages, 19 papers. 1988. \$9.00.
- SP89-1.** Selection and geology of Oklahoma's Superconducting Super Collider site, by Kenneth V. Luza and others. 85 pages, 46 figures, 8 tables, 1 plate. 1989. \$9.00.
- SP89-2.** Geology of the southern Midcontinent, by Kenneth S. Johnson and others. Reprint of Chapter 12 in L. L. Sloss (ed.), *Sedimentary cover—North American craton*; U.S.: Geological Society of America, Boulder, *The Geology of North America*, v. D-2. 53 pages, 34 figures, 2 plates. 1989; 2nd printing, 1997. \$10.00.
- SP90-1.** Geology and resources of the frontal belt of the western Ouachita Mountains, Oklahoma (Neil H. Suneson, Jock A. Campbell, and Maxwell J. Tilford, editors). Guidebook for field trip no. 2, September 27–28, 1989, American Association of Petroleum Geologists, Mid-Continent Section meeting, Oklahoma City; and for field trip no. MC-1, April 10–12, 1991, AAPG national convention, Dallas. 196 pages, 59 figures, 8 tables. 1990; 2nd printing, 1991. \$12.00.
- SP90-2.** Lithostratigraphy and core-drilling, upper Atoka Formation through lower Senora Formation (Pennsylvanian), northeastern Oklahoma shelf area, by LeRoy A. Hemish. 54 pages, 7 figures, 2 plates. 1990. \$8.00.
- SP90-3.** Hazardous-waste disposal in Oklahoma—a symposium (Kenneth S. Johnson, editor). Proceedings of a symposium held November 9, 1989, in conjunction with the annual technical meeting of the Oklahoma Academy of Science. 87 pages, 13 papers, 22 figures, 14 tables. 1990. \$5.00.
- SP90-4.** Bibliography and index of Oklahoma geology, 1981–84, compiled by Elizabeth A. Ham. 93 pages. 1990. \$5.00.
- SP90-5.** Hydrogeology and karst of the Blaine gypsum-dolomite aquifer, southwestern Oklahoma, by Kenneth S. Johnson and others. Guidebook for field trip no. 15, Geological Society of America annual meeting, held October 29–November 1, 1990, in Dallas. 31 pages, 30 figures, 2 tables. 1990. \$4.00.
- SP93-1.** Directory of Oklahoma mining industry, 1993 (Robert H. Arndt and Robert Springer, project coordinators). 153 pages. 1993. \$4.00.
- SP93-2.** Industrial-minerals development in Oklahoma—a symposium (Kenneth S. Johnson, editor). Proceedings of a symposium held December 1–2, 1992, in Norman, Oklahoma; cosponsored by the Oklahoma Geological Survey, Oklahoma Department of Mines, and U.S. Bureau of Mines. 88 pages, 17 papers. 1993; second printing, 1994. \$4.00.
- SP93-3.** Guidebook for selected stops in the western Arbuckle Mountains, south-

ern Oklahoma (Brian J. Cardott and James R. Chaplin, editors). Guidebook for the 10th annual meeting and field trip of The Society for Organic Petrology (TSOP) held October 13, 1993, in Norman, Oklahoma. 55 pages, 46 figures, 5 tables. 1993; second printing 2006. \$4.00.

- SP93-4.** Hunton Group core workshop and field trip (Kenneth S. Johnson, editor). Proceedings of a workshop and field trip held November 2–3, 1993; co-sponsored by the Oklahoma Geological Survey and the U.S. Department of Energy. 212 pages. 1993; second printing, 1998. \$9.00.
- SP94-1.** Catalog of type and figured fossil vertebrates, Oklahoma Museum of Natural History, by Nicholas J. Czaplewski, Richard L. Cifelli, and Wann Langston, Jr. 35 pages, 5 figures, 2 tables. 1994. \$2.00.
- SP94-2.** A geochemical study of crude oils and possible source rocks in the Ouachita tectonic province and nearby areas, southeast Oklahoma, by Jane L. Weber. 32 pages, 14 figures, 7 tables. 1994. \$2.00.
- SP94-3.** Coal geology of Okmulgee County and eastern Okfuskee County, Oklahoma, by LeRoy A. Hemish (with an underground coal mine map by Samuel A. Friedman). 86 pages, 9 figures, 2 tables, 8 plates. 1994. \$14.00.
- SP95-1.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Morrow play, by Richard D. Andrews and others. 67 pages, 53 figures, 9 tables, 6 plates. 1995. \$6.00; also sold in set with Open-File Report 9-97 (see p. 28), \$7.00.
- SP96-1.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Layton and Osage-Layton play, by Jock A. Campbell and others. 78 pages, 62 figures, 12 tables, 14 plates. 1996. \$6.00.
- SP96-2.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Skinner and Prue plays, by Richard D. Andrews and others. 118 pages, 80 figures, 17 tables, 9 plates. 1996. \$6.00.
- SP96-4.** Techniques for recovery and preparation of microvertebrate fossils (Richard L. Cifelli, editor). 36 pages. 1996. \$2.00.
- SP97-1.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Red Fork play, by Richard D. Andrews and others. 101 pages, 55 figures, 12 tables, 6 plates. 1997. \$6.00.
- SP97-2.** Lithologic descriptions of Pennsylvanian strata north and east of Tulsa, Oklahoma, by LeRoy A. Hemish. 44 pages, 5 figures, 2 plates. 1997. \$6.00.
- SP97-3.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Tonkawa play, by Jock A. Campbell and others. 74 pages, 42 figures, 9 tables, 5 plates. 1997. \$6.00; also sold in set with Open-File Report 3-97 (see p. 27), \$10.00.
- SP97-5.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Cleveland and Peru plays, by Jock A. Campbell and others. 105 pages, 67 figures, 16 tables, 10 plates. 1997. \$6.00.

- SP97-6.** Fluvial-dominated deltaic (FDD) oil reservoirs in Oklahoma: the Bartlesville play, by Robert A. Northcutt and others. 98 pages, 66 figures, 10 tables, 4 plates. 1997. \$6.00.
- SP98-2.** Coal geology of Muskogee County, Oklahoma, by LeRoy A. Hemish. 111 pages, 7 figures, 2 tables, 3 plates. 1998. \$12.00.
- SP98-3.** Geologic considerations of waterflooding: a workshop, by Kurt Rottmann and others. 171 pages, 172 figures, 20 tables. 1998. \$10.00.
- SP98-4.** Oklahoma resources for economic development (Hans-Joachim Späth, Gary L. Thompson, and Henry Eisenhart, editors). 265 pages. 1998. \$12.00.
- SP98-5.** Oklahoma oil and gas production by field, 1994–1997, coordinated by Michelle J. Summers. 439 pages. 1999. \$12.00.
- SP98-6.** Coal geology of McIntosh County, Oklahoma, by LeRoy A. Hemish. 74 pages, 8 figures, 2 tables, 2 color plates. 1998. \$16.00.
- SP98-7.** The Hartshorne play in southeastern Oklahoma: regional and detailed sandstone reservoir analysis and coal-bed methane resources, by Richard D. Andrews, Brian J. Cardott, and Taylor Storm. 90 pages, 53 figures, 14 tables, 6 color plates. 1998. \$10.00.
- SP99-1.** Two- and three-dimensional seismic methods: effective application can improve your bottom line, by Deborah K. Sacrey and others. 84 pages, 103 figures. 1999. \$14.00.
- SP99-3.** Geological perspectives of reservoir engineering: a waterflood workshop, by Kurt Rottmann. 101 pages, 148 figures, 15 tables. 1999. \$10.00.
- SP99-4.** Morrow gas play in the Anadarko basin and shelf of Oklahoma, by Richard D. Andrews. 133 pages, 74 figures, 12 tables, 7 plates. 1999. \$18.00.
- SP99-5.** Oklahoma oil and gas production by field, 1995–98, coordinated by Michelle J. Summers. 445 pages. 1999. \$12.00.
- SP2000-1.** Bibliography of copper occurrences in Pennsylvanian and Permian red beds and associated rocks in Oklahoma, Texas, and Kansas (1805 to 1996), compiled by Robert O. Fay. 16 pages. 2000. \$1.00.
- SP2000-2.** Hunton Play in Oklahoma (including northeast Texas Panhandle), by Kurt Rottmann and others. 131 pages, 135 figures, 12 tables, 6 plates. 2000. 2nd printing, 2008. \$17.00 (Also see Open-File Report 1-2001, a supplement to this report, p 28.)
- SP2001-1.** Springer gas play in western Oklahoma, by Richard D. Andrews and others. 123 pages, 76 figures, 17 tables, 11 plates. 2001. \$20.00.
- SP2002-1.** Metallic-mineral resources of Oklahoma, by Robert O. Fay and Douglas C. Brockie. 32 pages, 28 figures, 2 tables. 2002. \$3.00.
- SP2002-2.** Surface to subsurface correlation of methane-producing coal beds, northeast Oklahoma shelf, by LeRoy A. Hemish. 22 pages, 20 figures, 6 plates. 2002. \$5.00.

- SP2003-1.** Copper, lead, and zinc in the Ouachita Mountains in Oklahoma and adjacent parts of Arkansas, by Robert O. Fay. 38 pages, 35 figures, 2 tables. 2003. \$9.00.
- SP2003-2.** Cromwell play in southeastern Oklahoma, by Richard D. Andrews. 87 pages, 58 figures, 8 tables, 8 plates. 2003. \$16.00. [Also see Open-File Report 1-2005, a guidebook companion to this report, p. 29.]
- SP2004-1.** Core drilling and stratigraphic analysis of Lower Permian rocks, northern Oklahoma shelf, Kay County, Oklahoma, by James R. Chaplin. 173 pages, 18 figures, 2 tables, 2 plates. 2004. \$16.00.
- SP2005-1.** The Booch gas play in southeastern Oklahoma: regional and field-specific petroleum geological analysis, by Dan T. Boyd. 91 pages, 57 figures, 8 tables, 16 plates. 2005. \$14.00.
- SP2006-1.** Wells Drilled to Basement in Oklahoma, by Jock A. Campbell and Jane L. Weber. On CD. 2006. \$5.00.
- SP2008-1.** Stratigraphic Guide to Oklahoma Oil & Gas Reservoirs., by Dan T. Boyd. Laminated Chart. 2009. \$3.00 [shipped rolled in a tube].
- SP2008-2.** Geomagnetic Results, Secular Variation, and Archaeomagnetic Chronology, United States and mesoamerica, including Archaeomagnetic Data and Time Assignments. Robert L. Dubois, Emeritus. 353 pages, 137 figures, 1 table. 2008. \$20.00.

## Open-File Reports

Unedited, author-prepared reports and maps. See also Geologic Quadrangle maps (starting on p. 30), and Oklahoma Corporation Commission base of treatable water maps (starting on p. 34).

- OF1-42.** Catalog of 100 minerals, rocks, and fossils from Oklahoma, by W. E. Ham. 90 pages. 1942. \$2.00.
- OF1-83.** Seismicity and tectonic relationships of the Nemaha uplift in Oklahoma, Part V (final report), by Kenneth V. Luza and James E. Lawson, Jr. Prepared for U.S. Nuclear Regulatory Commission. 115 pages. 1983. \$8.00.
- OF1-87.** Ouachita Mountains frontal belt field trip, April 2–4, 1987, by Neil H. Suneson and Charles A. Ferguson. 37 pages. 1987. \$4.00.
- OF4-89.** Guidebook for selected geologic stops in the Arbuckle Mountains, by James R. Chaplin. Prepared for annual meeting of American Association of State Geologists, May 13–17, 1989, Oklahoma City. 60 pages. 1989. \$5.00.
- OF1-95.** The geology of the Broken Bow uplift—an introduction and field-trip guide, by Neil H. Suneson. Prepared for a meeting of the Oklahoma Academy of Science, April 22, 1995, Beavers Bend State Park, Oklahoma. 28 pages. 1995. \$3.00.
- OF2-95.** The 1995 AIPG Oklahoma Section convention field trip, by Larry C. Simpson. Prepared for the Fossil Heaven trip, April 23, 1995, near Lake Texoma, Oklahoma. 41 pages. 1995. \$5.00.
- OF3-95.** Stratigraphy and sedimentation of some selected Pennsylvanian (Atokan–Desmoinesian) strata in the southeastern part of the Arkoma basin, Oklahoma, by LeRoy A. Hemish, Neil H. Suneson, and James R. Chaplin. Prepared for the Midcontinent Pennsylvanian Stratigraphic Working Group Field Conference, May 20–21, 1995, southeastern Oklahoma. 107 pages. 1995. \$8.00.
- OF5-95.** Geologic provinces of Oklahoma, by Robert A. Northcutt and Jock A. Campbell. Map presented at the American Association of Petroleum Geologists, Mid-Continent Section meeting, October 8–10, 1995, Tulsa, Oklahoma. Scale 1:750,000. 1995. \$5.00.
- OF6-95.** The geology of the southwestern Ozark uplift—an introduction and field-trip guide, by John Simms, Fay Simms, and Neil H. Suneson. Prepared for a meeting of the Oklahoma Academy of Science, September 29–30, 1995, Tahlequah, Oklahoma. 27 pages. 1995. \$3.00.
- OF2-96.** The geology of the Ardmore basin in the Lake Murray State Park area, Oklahoma: an introduction and field-trip guide, by Neil H. Suneson. Prepared for a meeting of the Oklahoma Academy of Science, April 26–28, 1996, Lake

Murray State Park, Ardmore, Oklahoma. 32 pages. 1996. \$3.00.

- OF4-96.** Geology of the Sans Bois syncline along the proposed route of State Highway 82, Haskell and Latimer Counties, Oklahoma, by LeRoy A. Hemish. 1 sheet; scale 1:24,000. 1996. \$3.00.
- OF5-96.** Source rock potential and sediment thermal maturity trends in the Ouachita overthrust of southeast Oklahoma and southwest Arkansas, by Charles A. O. Titus and Gary A. Cole. 64 pages, 2 maps, 1 cross section. 1996. \$32.00 (postage \$6.40). Also available: 51 exploration briefs and technical memoranda (contact OGS Publication Sales Office for list of titles). 703 pages. \$44.00 (postage \$8.80).
- OF7-96.** Map showing the distribution of underground mines in the Hartshorne and McAlester coals in the Hartshorne 7.5' quadrangle, Pittsburg and Latimer Counties, Oklahoma, by Samuel A. Friedman. 1 sheet; scale 1:24,000. 1996. \$3.00.
- OF1-97.** The geology of the Gulf Coastal Plain in Marshall County, Oklahoma: an introduction and field-trip guide, by Neil H. Suneson. Prepared for a meeting of the Oklahoma Academy of Science, April 18–20, 1997, Kingston, Oklahoma. 29 pages. 1997. \$3.00.
- OF2-97.** Stratigraphic units in Oklahoma, Texas, Arkansas, and adjacent areas, by Robert O. Fay. 1997. Book, 229 pages, \$15.00; 4 hand-drafted correlation charts, approximately 3' × 6.5' each, \$31.00. Discount price for the set, \$40.00.
- OF3-97.** The marine Tonkawa sands: natural gas and associated liquids production in the Anadarko basin, by Carlyle Hinshaw and Kurt Rottmann. Prepared as a supplement to Special Publication 97-3. 57 pages. 1997. \$4.00. Also sold in set with SP 97-3 (see p. 24), \$10.
- OF4-97.** The geology of the eastern Arbuckle Mountains, Pontotoc and Johnston Counties, Oklahoma: an introduction and field-trip guide, by Neil H. Suneson. Prepared for annual meeting of the Oklahoma Chapter of the Nature Conservancy, May 31, 1997, Pontotoc, Oklahoma. 22 pages. 1997. \$3.00.
- OF8-97.** Early history of oil and gas in the southern Midcontinent and other areas, by Robert O. Fay. From *The Oil and Gas Journal* (or from *The Oil Investors' Journal, the Truth and Nothing but the Truth...*); Vol. I, 1902–1911, Vol. II, 1912–1915. 1997. Vol. I: 306 pages, including 73-page index, \$20.00. Vol. II: 655 pages, including 265-page index, \$41.00. Set: \$61.00.
- OF9-97.** Upper and Lower Morrow core descriptions from three wells in Dewey and Texas Counties, Oklahoma, by Richard D. Andrews. Prepared as a supplement to Special Publication 95-1. 18 pages. 1997. \$1.00. Also sold in set with SP95-1 (see p. 13), \$7.00.
- OF1-98.** The geology of the Gypsum Hills in Woodward and Major Counties, Oklahoma: an introduction and field-trip guide, by Neil H. Suneson. Prepared for annual meeting of the Oklahoma Chapter of the Nature Conservancy,

May 30, 1998, Boiling Springs State Park, Woodward, Oklahoma. 18 pages. 1998. \$1.00.

- OF4-99.** A field trip guide to the geology of the Black Mesa State Park area, Cimarron County, Oklahoma, by Neil H. Suneson and Kenneth V. Luza. Prepared for the fall meeting of the Oklahoma Academy of Science, September 17–19, 1999, Black Mesa State Park, Kenton, Oklahoma. 52 pages. 1999. \$5.00.
- OF5-99.** Geology of a proposed landfill site, Cherokee County, Oklahoma, by LeRoy A. Hemish. 33 pages, 2 foldout figures. 1999. \$4.00.
- OF6-99.** Oklahoma coalbed-methane workshop, compiled by Brian J. Cardott. Prepared for a workshop cosponsored by the Oklahoma Geological Survey, Petroleum Technology Transfer Council (South-Midcontinent Region), and Oklahoma Independent Petroleum Association/Gas Research Institute, December 1, 1999, Norman, Oklahoma. 114 pages. 1999. \$8.00. [Also see Open-File Report 2-2000, a supplement to this report, listed below.]
- OF1-2000.** The geology of the Tallgrass Prairie Preserve, Osage County, Oklahoma: an introduction and field-trip guide, by Neil H. Suneson. Prepared for a meeting of the Legacy Club members of the Oklahoma Chapter of the Nature Conservancy, April 1, 2000, Tallgrass Prairie Preserve, Oklahoma. 36 pages. 2000. \$4.00.
- OF2-2000.** Oklahoma coalbed-methane workshop, compiled by Brian J. Cardott. Prepared as a supplement to Open-File Report 6-99 (listed above). 81 pages. 2000. \$10.00.
- OF1-2001.** Correlation of Hunton electric logs to Hunton cores and samples, by Kurt Rottmann. Prepared as a supplement to Special Publication 2000-2 (see p. 20). 432 pages, plus 20 index pages. 2001. \$25.00.
- OF2-2001.** Oklahoma coalbed-methane workshop 2001, compiled by Brian J. Cardott. Prepared for a workshop co-sponsored by the Oklahoma Geological Survey and Petroleum Technology Transfer Council, October 10, 2001, Poteau, Oklahoma. 151 pages. 2001. \$10.00.
- OF4-2001.** Geologic map of the western Potato Hills, Latimer and Pushmataha Counties, southeast Oklahoma, by Galen W. Miller and Kevin J. Smart. 1 sheet; scale 1:24,000. 2001. \$4.00.
- OF1-2002.** List of some significant wells in and around the Ouachita Mountains and Arkoma basin, by Robert O. Fay. 185 pages. 2002. \$13.00.
- OF6-2002.** Permeability and salinity data from the Anadarko basin, by Constantin Cranganu and David Deming. 18 pages. 2002. \$1.00.
- OF7-2002.** Practical reservoir characterization for the independent operator, by Roger M. Slatt. Slides from a workshop held June 24–25, 2002, Norman, Oklahoma. 302 pages. 2002. \$10.00.
- OF9-2002.** Fourth annual Oklahoma coalbed-methane workshop, compiled by Brian J. Cardott. 170 pages. 2002. \$10.00.

- OF10-2002.** Field trip guidebook for 62nd annual meeting of the Society of Vertebrate Paleontology (Roger Burkhalter, Nicholas Czaplewski, and Richard Lupia, editors). 87 pages. 2002. \$7.00.
- OF6-2003.** Produced water and associated issues, by Rodney R. Reynolds with a contribution from Robert D. Kiker. 83 pages. 2003. \$2.00.
- OF7-2003.** Preliminary list of holes drilled to basement or deep into Arbuckle strata in northern Oklahoma, compiled by Louise Jordan and Frederick J. Smith. 17 pages. Prepared in 1961. \$1.00.
- OF8-2003.** Holes drilled to basement or deep into Arbuckle Group in northeastern Oklahoma and Panhandle of Oklahoma, compiled by Louise Jordan. 33 pages. Prepared in 1963. \$3.00.
- OF15-2003.** Field guide to geologic features of Roman Nose State Park and surrounding areas, by James R. Chaplin, Kenneth V. Luza, and Luis Rodriguez. Prepared for the annual state meeting of the Oklahoma Section of the American Institute of Professional Geologists, May 2–4, 2003, Roman Nose State Park, Oklahoma. 32 pages. 2003. \$4.00.
- OF18-2003.** A history of Midcontinent mineral discoveries, by Robert O. Fay. 25 pages. 2003. \$3.00.
- OF19-2003.** Applied geology for the petroleum engineer, by Roger M. Slatt. Slides from a workshop given August 20, 2003, Norman, Oklahoma. 300 pages. 2003. \$15.00.
- OF46-2004.** Petroleum geology of the deepwater Jackfork Group and Atoka Formation, with a primer on the petroleum geology of deepwater depositional systems, by Roger M. Slatt, James M. Forgotson, Jr., and Azzeldeen A. Saleh. Slides from a workshop given August 18, 2004, Norman, Oklahoma. 129 pages. 2004. \$10.00.
- OF52-2004.** Map showing locations of underground coal mines in eastern Oklahoma, by Samuel A. Friedman. Compiled in 1979 in cooperation with Oklahoma Conservation Commission and U.S. Department of the Interior Office of Surface Mining. Scale 1:250,000. 2006. \$8.00.
- OF1-2005.** Guidebook to the geology of the Cromwell Sandstone and equivalent units in the Lawrence uplift, Arkoma basin, Ouachita Mountains, and Ozark uplift of eastern Oklahoma, by Neil H. Suneson and Richard D. Andrews. Prepared for a field trip held on November 12–13, 2003. 130 pages. 2005. \$9.00. [Also see SP 2003-2, a companion to this report, p. 25.]
- OF1-2006.** Inventory of mine shafts and collapse features associated with abandoned underground mines in the Picher Field northeastern Oklahoma, by Kenneth V. Luza and W. Ed Keheley. 68 pages. 2006. \$6.00.
- OF2-2006.** Oklahoma asphaltic deposits - field sheets and map ("The Goodrich File") Prepared in 1943 - 1944 by Harold B. Goodrich. 133 pages. Scale 1:500,000. 2006. \$15.00.

- OF3-2006.** Asphalts, asphaltites, asphaltic pyrobitumens in Oklahoma (“The Goodrich File”). Prepared in 1943 - 1944 and added to in 1963-1964, by Harold B. Goodrich with additions by Louise Jordan. 330 pages. 2006. \$21.00.
- OF4-2006.** Hydrogeology and water management of the Arbuckle-Simpson aquifer, south-central Oklahoma. Material prepared for March 4, 2006 Field Trip No. 1, South-central Section Geological Society of America 2006 Annual Meeting, Norman, Oklahoma, by Noel Osborn, Scott Christenson, and Todd Halihan. 62 pages. 2006. \$5.00
- OF5-2006.** Interpreting igneous texture - a field trip to outcrops in the Cambrian Wichita Mountains igneous suite. Prepared for March 5, 2006 Field Trip No. 4, South-central Section Geological Society of America 2006 Annual Meeting, Norman, Oklahoma, by David London and M. C. Gilbert. 12 pages. 2006 \$1.00
- OF6-2006.** Stratigraphy and paleontology of the Upper Mississippian Barnett Shale of Texas and Caney Shale of southern Oklahoma. Material prepared for March 3-5, 2005 Field Trip No. 5, South-central Section Geological Society of America 2006 Annual Meeting, Norman, Oklahoma, by Darwin Boardman and Jim Puckette. 86 pages. 2006. \$7.00
- OF7-2006.** Oklahoma 3-D Seismic Applications (Manual from workshop given November 1, 2006 in Norman OK.), by Robert J. Springman, Raymond Brown, Kevin Werth, James O. Puckett, and Robert A. Northcutt. 180 pages. 2006. \$30.00.
- OF8-2006.** Field trip guide to the Tar Creek Superfund site, Picher, Oklahoma. Prepared for April 28-29, 2006, Oklahoma Section American Institute of Professional Geologists Annual Meeting, Shangri La Resort, Grand Lake, Oklahoma, by Kenneth V. Luza and W. Ed Keheley. 62 pages. \$5.00
- OF1-2007.** Woodford Gas Field Trip. Leaders: Brian J. Cardott, Richard D. Andrews, Galen W. Miller, and Stanley T. Paxton. May 22 & 24, 2007. 52 pages. 2007. \$15.00
- OF1-2008.** Map Showing the Distribution of Underground Mines in the Lower Hartshorne and McAlester Coals in the Adamson 7.5' Quadrangle, Pittsburg and Latimer Counties, Oklahoma, by S. A. Friedman. 2008. 1 sheet, includes 1 table and annotations (available as a free download only at [www.ogs.ou.edu](http://www.ogs.ou.edu)).
- OF2-2008.** Oklahoma Gas Shales. Leaders: Stanley T. Paxton and Brian J. Cardott. October 21 & 23, 2008. 87 pages. 2008. \$20.00.

## Oklahoma Geologic Quadrangle Maps

Oklahoma geologic quadrangle (OGQ) maps were funded through COGEO-MAP and later through STATEMAP cooperative programs with the US Geological Survey. Available as black-and-white, author-prepared photocopies or colored map on CD-ROM. Scale 1:24,000 (unless stated otherwise). OGQ's 1-60 are also available as a free download at [www.ogs.ou.edu](http://www.ogs.ou.edu). Additional OGQ's 61-70, 74 have been added as a free download at [www.ogs.ou.edu](http://www.ogs.ou.edu).

OGQ1. Geologic map of the Higgins 7.5' quadrangle, Latimer County, Oklahoma, by N. H. Suneson and C. A. Ferguson. 1989. Paper Only. Previously OF1-89. \$6.00.

OGQ2. Geologic map of the Damon 7.5' quadrangle, Latimer County, Oklahoma, by N. H. Suneson and C. A. Ferguson. 1989. Paper Only. Previously OF2-89. \$6.00.

OGQ3. Geologic map of the Baker Mountain 7.5' quadrangle, Latimer County, Oklahoma, by N. H. Suneson and C. A. Ferguson. 1989. Paper Only. Previously OF3-89. \$5.00.

OGQ4. Geologic map of the Panola 7.5' quadrangle, Latimer County, Oklahoma, by L. A. Hemish, N. H. Suneson, and C. A. Ferguson. 1990. Paper Only. Previously OF1-90. \$6.00.

OGQ5. Geologic map of the Wilburton 7.5' quadrangle, Latimer County, Oklahoma, by L. A. Hemish, N. H. Suneson, and C. A. Ferguson. 1990. Paper Only. Previously OF2-90 \$6.00.

OGQ6. Geologic map of the Red Oak 7.5' quadrangle, Latimer County, Oklahoma, by L. A. Hemish, N. H. Suneson, and C. A. Ferguson. 1990. Paper Only. Previously OF3-90 \$7.00.

OGQ7. Geologic map of the Talihina 7.5' quadrangle, Latimer and Le Flore Counties, Oklahoma, by N. H. Suneson and C. A. Ferguson. 1990. Paper Only. Previously OF4-90. \$7.00.

OGQ8. Geologic map of the Le Flore 7.5' quadrangle, Latimer and Le Flore Counties, Oklahoma, by L. A. Hemish. 1991. Paper Only. Previously OF1-91. \$4.00.

OGQ9. Geologic map of the Le Flore SE 7.5' quadrangle, Le Flore County, Oklahoma, by L. A. Hemish and N. H. Suneson. 1991. Paper Only. Previously OF2-91. \$5.00.

OGQ10. Geologic map of the Blackjack Ridge 7.5' quadrangle, Le Flore County, Oklahoma, by N. H. Suneson. 1991. Paper Only. Previously OF3-91. \$5.00.

OGQ11. Geologic map of the Gowen 7.5' quadrangle, Latimer County, Oklahoma, by L. A. Hemish. 1992. Paper Only. Previously OF1-92. \$7.00.

OGQ12. ; Yc`c[ ]Wa Ud`cZH`Y`G` a a YfUY`X`+) ' quadrangle, Le Flore County,

- Oklahoma, by L. A. Hemish and Colin Mazengarb. 1992. Paper Only. Previously OF2-92. \$7.00.
- OGQ13.** Geologic map of the Hodgen 7.5' quadrangle, Le Flore County, Oklahoma, by N. H. Suneson and L. A. Hemish. 1993. Paper Only. Previously OF1-93. \$5.00.
- OGQ14.** Geologic map of the Hontubby and Loving 7.5' quadrangles, Le Flore County, Oklahoma, by Colin Mazengarb and L. A. Hemish. 2 sheets. 1993. Paper Only. Previously OF2-93. \$10.00.
- OGQ15.** Geologic Map of the Wister 7.5' quadrangle, Le Flore County, Oklahoma, by L. A. Hemish and N. H. Suneson. 1993. Paper Only. Previously OF3-93. \$5.00.
- OGQ16.** Geologic map of the Heavener and Bates 7.5' quadrangles, Le Flore County, Oklahoma, by L. A. Hemish and N. H. Suneson. 1994. Paper Only. Previously OF1-94. \$6.00.
- OGQ17.** Geologic map of the Adamson 7.5' quadrangle, Latimer and Pittsburg Counties, Oklahoma, by L. A. Hemish. 1995. Paper Only. Previously OF4-95 \$7.00.
- OGQ18.** Geologic map of the Hartshorne 7.5' quadrangle, Latimer and Pittsburg Counties, Oklahoma, by N. H. Suneson. 2 sheets. 1996. Paper Only. Previously OF1-96. \$9.00.
- OGQ19.** Geologic map of the Krebs 7.5' quadrangle, Pittsburg County, Oklahoma, by L. A. Hemish. 1996. Paper Only. Previously OF3-96. \$6.00.
- OGQ20.** Geologic map of the Hartshorne SW 7.5' quadrangle, Pittsburg County, Oklahoma, by N. H. Suneson and L. A. Hemish. 1996. Paper Only. Previously OF8-96. \$5.00.
- OGQ21.** Geologic map of the McAlester 7.5' quadrangle, Pittsburg County, Oklahoma, by L. A. Hemish. 1997. Paper Only. Previously OF5-97. \$6.00.
- OGQ22.** Geologic map of the Savanna 7.5' quadrangle, Pittsburg County, Oklahoma, by N. H. Suneson. 1997. Paper Only. Previously OF6-97. \$5.00.
- OGQ23.** Geologic map of the Oklahoma City SW 7.5' quadrangle, Canadian, Cleveland, Grady, and McClain Counties, Oklahoma, by N. H. Suneson and T. M. Stanley. Colored map on CD-ROM, . Previously OF 5-2001, \$4.00.
- OGQ24.** Geologic map of the Oklahoma City SE 7.5' quadrangle, Cleveland and McClain Counties, Oklahoma, by N. H. Suneson and T. M. Stanley. Colored map on CD-ROM, Previously OF6-2001. \$4.00.
- OGQ25.** Geologic map of the Moore 7.5' quadrangle, Cleveland County, Oklahoma, by T. M. Stanley and N. H. Suneson. Colored map on CD-ROM. Previously OF7-2001, \$4.00.
- OGQ26.** Geologic map of the Franklin 7.5' quadrangle, Cleveland County, Oklahoma, by T. M. Stanley and N. H. Suneson. Colored map on CD-ROM. Previously OF8-2001, \$4.00.

- OGQ27. Geologic map of the Blanchard 7.5' quadrangle, Grady and McClain Counties, Oklahoma, by G. W. Miller and T. M. Stanley. Colored map on CD-ROM. Previously OF3-2002, \$4.00.
- OGQ28. Geologic map of the Newcastle 7.5' quadrangle, Cleveland and McClain Counties, Oklahoma, by G. W. Miller and T. M. Stanley. Colored map on CD-ROM. Previously OF4-2002, \$4.00.
- OGQ29. Geologic map of the Norman 7.5' quadrangle, Cleveland and McClain Counties, Oklahoma, by T. M. Stanley and G. W. Miller. Colored map on CD-ROM. Previously OF11-2002, \$4.00.
- OGQ30. Geologic map of the Denver 7.5' quadrangle, Cleveland County, Oklahoma, by T. M. Stanley and G. W. Miller. Colored map on CD-ROM. Previously OF12-2002, \$4.00.
- OGQ31. Geologic map of the Luther 7.5' quadrangle, Lincoln, Logan, and Oklahoma Counties, Oklahoma, by G. W. Miller and T. M. Stanley. 2003. Colored map on CD-ROM. Previously OF1-2003, \$4.00.
- OGQ32. Geologic map of the Horseshoe Lake 7.5' quadrangle, Lincoln and Oklahoma Counties, Oklahoma, by T. M. Stanley and G. W. Miller. 2003. Colored map on CD-ROM. Previously OF2-2003, \$4.00.
- OGQ33. Geologic map of the Harrah 7.5' quadrangle, Cleveland, Lincoln, Oklahoma, and Pottawatomie Counties, Oklahoma, by T. M. Stanley and G. W. Miller. 2003. Colored map on CD-ROM. Previously OF3-2003, \$4.00.
- OGQ34. Geologic map of the Stella 7.5' quadrangle, Cleveland and Pottawatomie Counties, Oklahoma, by T. M. Stanley and G. W. Miller. 2003. Colored map on CD-ROM. Previously OF4-2003, \$4.00.
- OGQ35. Geologic map of the Little Axe 7.5' quadrangle, Cleveland and Pottawatomie Counties, Oklahoma, by G. W. Miller and T. M. Stanley. 2003. Colored map on CD-ROM. Previously OF5-2003, \$4.00.
- OGQ36. Geologic map of the Guymon 30' Δ 60' quadrangle, Texas County, Oklahoma, by N. H. Suneson and T. M. Stanley. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF9-2003, \$4.00.
- OGQ37. Geologic map of the Beaver 30' Δ 60' quadrangle, Beaver, Ellis, Harper, and Texas Counties, Oklahoma, by T. M. Stanley and N. H. Suneson. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF10-2003, \$4.00.
- OGQ38. Geologic map of the Oklahoma City 7.5' quadrangle, Oklahoma and Cleveland Counties, Oklahoma, by N. H. Suneson and T. M. Stanley. 2003. Colored map on CD-ROM. Previously OF11-2003, \$4.00.
- OGQ39. Geologic map of the Buffalo 30' Δ 60' quadrangle, Ellis, Harper, Woods, and Woodward Counties, Oklahoma, by T. M. Stanley and N. H. Suneson. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF12-2003, \$4.00.
- OGQ40. Geologic map of the Woodward 30' Δ 60' quadrangle, Ellis, Dewey,

- Roger Mills, and Woodward Counties, Oklahoma, by T. M. Stanley. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF13-2003, \$4.00.
- OGQ41.** Geologic map of the Fairview 30' Δ 60' quadrangle, Alfalfa, Blaine, 8Yk Yrñ; UfUY`Xž`?]b[ Úg\Yfž`A U`cfž`K ccXgž`UbX`K ccXk UfX`7ci bh]Ygž`C\_`U-homa, by T. M. Stanley, G. W. Miller, and N. H. Suneson. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF14-2003, \$4.00.
- OGQ42.** Geologic map of the Alva 30' Δ 60' quadrangle, Alfalfa, Grant, Major, Woods, and Woodward Counties, Oklahoma, by G. W. Miller and T. M. Stanley. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF16-2003, \$4.00.
- OGQ43.** Geologic map of the Boise City 30' Δ 60' quadrangle, Cimarron and Texas Counties, Oklahoma, by K. V. Luza and R. O. Fay. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF17-2003, \$4.00.
- OGQ44.** Geologic map of the Elk City 30' Δ 60' quadrangle, Beckham, Custer, Greer, Harmon, Kiowa, Roger Mills, and Washita Counties, Oklahoma, by K. S. Johnson, T. M. Stanley, and G. W. Miller. Scale 1:100,000. 2003. Colored map on CD-ROM. Previously OF20-2003, \$4.00.
- OGQ45.** Geologic map of the Mustang 7.5' quadrangle, Oklahoma, Canadian, and Cleveland Counties, Oklahoma, by N. H. Suneson and T. M. Stanley. 2004. Colored map on CD-ROM. Previously OF1-2004, \$4.00.
- OGQ46.** Geologic map of the Midwest City 7.5' quadrangle, Oklahoma and Cleveland Counties, Oklahoma, by T. M. Stanley and N. H. Suneson. 2004. Colored map on CD-ROM. Previously OF2-2004, \$4.00.
- OGQ47.** Geologic map of the Choctaw 7.5' quadrangle, Oklahoma and Cleveland Counties, Oklahoma, by T. M. Stanley and N. H. Suneson. 2004. Colored map on CD-ROM. Previously OF3-2004, \$4.00.
- OGQ48.** Geologic map of the Bethany 7.5' quadrangle, Canadian and Oklahoma Counties, Oklahoma, by N. H. Suneson, T. M. Stanley and J. D. Price. 2004. Colored map on CD-ROM. Previously OF4-2004, \$4.00.
- OGQ49.** Geologic map of the Britton 7.5' quadrangle, Oklahoma County, Oklahoma, by N. H. Suneson and T. M. Stanley. 2004. Colored map on CD-ROM. Previously OF5-2004, \$4.00.
- OGQ50.** Geologic map of the Spencer 7.5' quadrangle, Oklahoma County, Oklahoma, by T. M. Stanley and N. H. Suneson. 2004. Colored map on CD-ROM. Previously OF6-2004, \$4.00.
- OGQ51.** Geologic map of the Jones 7.5' quadrangle, Oklahoma County, Oklahoma, by T. M. Stanley and N. H. Suneson. 2004. Colored map on CD-ROM. Previously OF7-2004 \$4.00.
- OGQ52.** Geologic map of the Piedmont 7.5' ei UXfUb[`Yž`?]b[ Úg\Yfž`@c[ Ubž` Canadian, and Oklahoma Counties, Oklahoma, by N. H. Suneson and L. A. Hemish. 2004. Colored map on CD-ROM, Previously OF8-2004 \$4.00.

- OGQ53.** Geologic map of the Bethany NE 7.5' quadrangle, Logan and Oklahoma Counties, Oklahoma, by N. H. Suneson and L. A. Hemish. 2004. Colored map on CD-ROM. Previously OF9-2004 , \$4.00.
- OGQ54.** Geologic map of the Edmond 7.5' quadrangle, Logan and Oklahoma Counties, Oklahoma, by L. A. Hemish and N. H. Suneson. 2004. Colored map on CD-ROM. Previously OF10-2004, \$4.00.
- OGQ55.** Geologic map of the Arcadia 7.5' quadrangle, Logan and Oklahoma Counties, Oklahoma, by L. A. Hemish and N. H. Suneson. 2004. Colored map on CD-ROM. Previously OF11-2004., \$4.00.
- OGQ56.** Geologic map of the Sageeyah 7.5' quadrangle, Rogers County, Oklahoma, by G. W. Miller and T. M. Stanley. 2005. Colored map on CD-Rom. Previously OF2-2005, \$4.00
- OGQ57.** Geologic map of the Claremore 7.5' quadrangle, Rogers County, Oklahoma, by T.M. Stanley and G. W. Miller. 2005. Colored map on CD-Rom. Previously OF3-2005.
- OGQ58.** Geologic map of the Anadarko 30' x 60' quadrangle, Caddo, Canadian, Custer, Grady, Kiowa and Washita Counties, Oklahoma, by G. W. Miller and T. M. Stanley. 2005. Colored map on CD-Rom. Previously OF4-2005, \$4.00.
- OGQ59.** Geologic map of the Altus 30' x 60' quadrangle, Harmon, Jackson, and Tillman Counties, Oklahoma, by T. M. Stanley and G. W. Miller. 2005. Colored map on CD-Rom. Previously OF5-2005, \$4.00.
- OGQ60.** Geologic map of the Oklahoma part of the Vernon 30' x 60' quadrangle, Jackson and Tillman Counties, Oklahoma, by T. M. Stanley. 2004. Colored map on CD-Rom. Previously OF6-2005, \$4.00.

## **OKLAHOMA CORPORATION COMMISSION**

### **Base of Treatable Water Maps**

Black-and-white county maps prepared by Dennis Niskern of the Oklahoma Corporation Commission; scale 1:126,720 (1 in. = 2 mi). Folded \$3.00 each.

- OF12-2004.** Blaine County, Oklahoma. 2004.
- OF13-2004.** Canadian County, Oklahoma. 2004.
- OF14-2004.** Carter County, Oklahoma. 2004.
- OF15-2004.** Creek County, Oklahoma. 2004.
- OF16-2004.** Custer County, Oklahoma. 2004.
- OF17-2004.** Dewey County, Oklahoma. 2004.
- OF18-2004.** Ellis County, Oklahoma. 2004.
- OF19-2004.** Garvin County, Oklahoma. 2004.

- OF20-2004.** Grady County, Oklahoma. 2004.
- OF21-2004.** Haskell County, Oklahoma. 2004.
- OF22-2004.** Hughes County, Oklahoma. 2004.
- OF23-2004.** Kingfisher County, Oklahoma. 2004.
- OF24-2004.** Latimer County, Oklahoma. 2004.
- OF25-2004.** Le Flore County, Oklahoma. 2004.
- OF26-2004.** Lincoln County, Oklahoma. 2004.
- OF27-2004.** McClain County, Oklahoma. 2004.
- OF28-2004.** McIntosh County, Oklahoma. 2004.
- OF29-2004.** Muskogee County, Oklahoma. 2004.
- OF30-2004.** Nowata County, Oklahoma. 2004.
- OF31-2004.** Okfuskee County, Oklahoma. 2004.
- OF32-2004.** Okmulgee County, Oklahoma. 2004.
- OF33-2004.** Payne County, Oklahoma. 2004.
- OF34-2004.** Pittsburg County, Oklahoma. 2004.
- OF35-2004.** Pontotoc County, Oklahoma. 2004.
- OF36-2004.** Pottawatomie County, Oklahoma. 2004.
- OF37-2004.** Roger Mills County, Oklahoma. 2004.
- OF38-2004.** Rogers County, Oklahoma. 2004.
- OF39-2004.** Seminole County, Oklahoma. 2004.
- OF40-2004.** Sequoyah County, Oklahoma. 2004.
- OF41-2004.** Stephens County, Oklahoma. 2004.
- OF42-2004.** Tulsa County, Oklahoma. 2004.
- OF43-2004.** Wagoner County, Oklahoma. 2004.
- OF44-2004.** Washington County, Oklahoma. 2004.
- OF45-2004.** Woodward County, Oklahoma. 2004.

# Oklahoma Geology Notes

Now in its 69th volume; published quarterly by the Oklahoma Geological Survey (previously published monthly as *The Hopper*, volumes 1–15, and as *Oklahoma Geology Notes (OGN)*, volumes 16–27; and bimonthly as *OGN*, volumes 28–59). *OGN* contains short technical articles, mineral-industry and petroleum news and statistics, reviews, and announcements pertinent to Oklahoma geology. \$1.50 per single copy (price subject to change).\*

*The Hopper*, volumes 1–15, is out of print. Volumes of *Oklahoma Geology Notes* are available in unbound sets (monthly, vols. 16–27; bimonthly, vols. 28–59; quarterly, vols. 60–63). \$6.00 per volume (price subject to change).\*

Year	Vol.	Pages	Year	Vol	Pages	Year	Vol	Pages
1956	16	144	1974	34	232	1992	52	247
1957	17	120	1975	35	244	1993	53	252
1958	18	208	1976	36	268	1994	54	266
1959	19	268	1977	37	240	1995	55	260
1960	20	328	1978	38	268	1996	56	272
1961	21	340	1979	39	260	1997	57	256
1962	22	324	1980	40	280	1998	58	280
1963	23	292	1981	41	228	1999	59	248
1964	24	312	1982	42	260	2000	60	100
1965	25	316	1983	43	207	2001	61	140
1966	26	296	1984	44	220	2002	62	188
1967	27	244	1985	45	268	2003	63	187
1968	28	208	1986	46	242	2004	64+	36
1969	29	164	1987	47	291	2005	65	144
1970	30	168	1988	48	270	2006	66	183
1971	31	148	1989	49	246	2007	67^	103
1972	32	220	1990	50	251	2008	68^	99
1973	33	252	1991	51	220	2009	69	

\*A photocopy will be substituted for any out of print issue.

+2004 is a single issue volume, \$2.00.

^2007 & 2008 issued in 2 volumes.

## INFORMATION SERIES

- IS1.** Mountains, streams, and lakes of Oklahoma, by Kenneth S. Johnson.
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- IS10.** Oklahoma oil, natural gas, and our place in the big picture, by Dan T. Boyd (52-page booklet). \$4.00.
- IS11.** Geologic hazards in Oklahoma, by Kenneth V. Luza and Kenneth S. Johnson (21-page booklet). \$3.00.
- IS12.** Oklahoma Mineral Locality Index, by Aruthur E. Smith, Jr, Robert O. Fay, and Joe Lobell. Reprinted from *Rocks and Minerals*, Vol.72, No. 4, 1997. 2008. \$1.00.
- IS13.** The Barite Roses of Oklahoma, by David London. Reprinted from *The Mineralogical Record*, July-August 2008. 2009. \$5.00

## OTHER LITERATURE

(Except where noted, there is no charge for a single copy; two or more copies cost 25¢ each plus postage.)

**A few geo-facts about Oklahoma:** collected for Earth Sciences Week in Oklahoma, 1998 (29-page booklet).

**Geology of Oklahoma (postcard).** No charge for single postcard; price for additional postcards is 15¢ each, or two for 25¢.

**Geology of Oklahoma—a summary,** by William E. Ham.

**Index to topographic maps of Oklahoma,** by the U.S. Geological Survey.

**Oklahoma earthquakes,** by Kenneth V. Luza and James E. Lawson, Jr.

**Rose rocks in Oklahoma** (pamphlet).

**OGS’ OPIC Bookmark**

# Publications by Other Agencies

(available from the Oklahoma Geological Survey)

## U.S. Geological Survey

**Geologic map of the United States, exclusive of Alaska and Hawaii**, compiled by Philip B. King and Helen M. Beikman, geologic cartography by Gertrude J. Edmonston. Scale 1:2,500,000. 1974. \$10.00, rolled (mailed in tube).

**Geological Investigations Series I-2720, A tapestry of time and terrain: the union of two maps - geology and topography**. By Jose F. Vigil, Richard Jpiké, and David G. Howell. Full-color 42' x 58" poster and accompanying pamphlet. Scale 1:3,500,000. 2000. \$7.00, rolled (mailed in tube).

**U.S.A. showing the extent of public land survey**, remaining public land, historical boundaries, national forests, Indian reservations, wildlife refuge, and national parks and monuments. 1 map, scale 1:3,168,000. 1965. \$7.00 rolled (mailed in a tube).

**Geologic map of Oklahoma**. By H. D. Miser. Scale 1:500,000. In 2 sheets. 1954. \$9.00, rolled (mailed in tube) (also listed on page 16).

**Topographic maps:** The Oklahoma Geological Survey is a sales agent for U.S. Geological Survey topographic maps of Oklahoma quadrangles only. A copy of the index to topographic mapping is available on request at no cost. Except where noted, topographic maps are sold rolled (mailed in tube).

**Quadrangle maps** (7.5'). Available at scale of 1:24,000. \$6.00 per sheet.

**Metric topographic** (30' by 60') series. Quadrangles available at scale of 1:100,000 (1 cm = 1 km). \$7.00 per sheet. Folded.

**1:250,000 series** (1° x 2°). Published by the U.S. Geological Survey, \$7.00 per sheet.

**Topographic map of Oklahoma**, scale 1:500,000 (1 in = 8 mi). 1 sheet, 35 by 54 inches. 1972 edition, issued 1975. \$7.00

**Hydrologic Investigations Atlases:** (\$7.00 each, folded in envelope)

**HA223**. Base of fresh ground water in southern Oklahoma, by Donald L. Hart, Jr. Prepared in cooperation with Oklahoma Corporation Commission and Oklahoma Water Resources Board. 1 map of southwestern Oklahoma and 1 map of southern Oklahoma at a scale of 1:250,000. 1966.

**HA250**. Availability of ground water in Texas County, Oklahoma, by P. R. Wood and D. L. Hart, Jr. Prepared in cooperation with Oklahoma Water Resources Board. Set of 3 maps at a scale of 1:125,000. 1967.

**HA373**. Reconnaissance of the ground-water resources of Cimarron County, Oklahoma, by D. B. Sapik and R. L. Goemaat. Prepared in cooperation with Oklahoma Water Resources Board. Set of 3 maps at a scale of 1:125,000. 1973.

**HA450.** Reconnaissance of the water resources of Beaver County, Oklahoma, by R. B. Morton and R. L. Goemaat. Prepared in cooperation with Oklahoma Water Resources Board. Set of 3 maps at a scale of 1:125,000. 1973.

**HA707.** Flood of May 26–27, 1984, in Tulsa, Oklahoma, by DeRoy L. Bergman and Robert L. Tortorelli. One sheet with two maps, scale 1:96,000 and 1:48,000. 1988.

**HA724.** Hydrogeologic maps of the Central Oklahoma Aquifer, Oklahoma, by Scott C. Christenson, Robert B. Morton, and Benard A. Mesander. Set of 3 maps at a scale of 1:250,000. 1992.

## **Tulsa Geological Society**

**Petroleum Geology of the Mid-Continent**, edited by Bailey Rascoe, Jr., and N. J. Hyne. Tulsa Geological Society Special Publication No. 3. This 16 x 24-inch atlas covers Oklahoma, Kansas, Missouri, Texas Panhandle, and parts of Colorado and Arkansas. 44 papers on the geologic framework and specific plays are accompanied by a regional correlation chart; 23 1:2,500,000-scale maps (isopach with production for 15 stratigraphic units, basement, structure, gravity, magnetic, and paleogeology); transparent county and township grid overlays; color cross sections of 10 petroleum provinces including the Anadarko and Arkoma basins, and southern Oklahoma fold belt. 162 pages, 34 color plates. 1988. \$30.00.

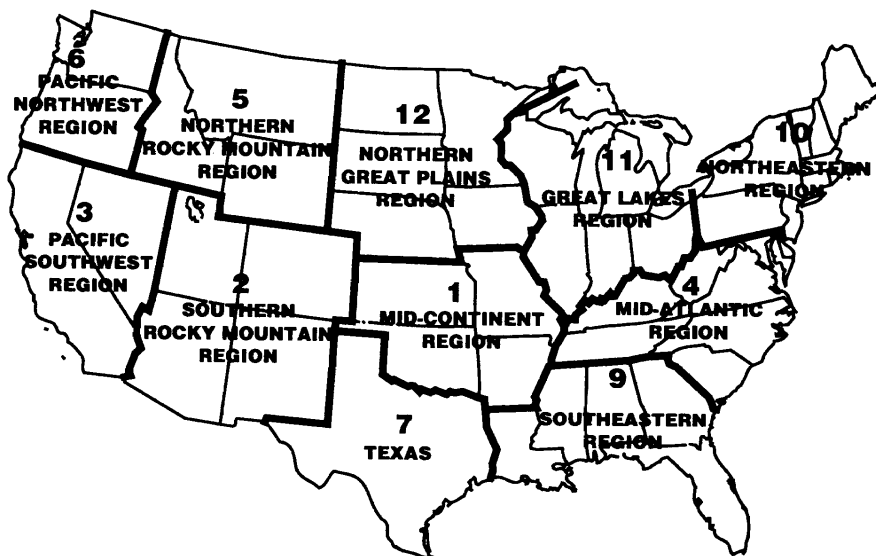
## **Oklahoma State Department of Health**

**Ground-Water Resources in Oklahoma:** Maps showing principal ground-water resources and recharge areas in Oklahoma: Sheet 1 - Unconsolidated alluvium and terrace deposits; Sheet 2 - Bedrock aquifers and recharge areas. Compiled by Kenneth S. Johnson. Prepared in cooperation with the Oklahoma Geological Survey. Scale 1:500,000. 1983; 2nd printing, 1993; 3rd printing, 2004. \$5.00, folded in envelope.

# American Association of Petroleum Geologists

## Geological Highway Maps

Compiled by Philip Oetking, H. B. Renfro, Dan E. Feray, and Allan P. Ben-nison, the geological highway maps are published by the association in co-operation with the U.S. Geological Survey and state agencies. Scale for most maps: 1 in. = 30 mi. Each map includes generalized stratigraphic columns, cross sections, mileage chart, and physiographic, tectonic, paleogeographic, and lithofacies maps. Maps are folded to glove-compartment size. \$ 8.00



**HWY 1.** Mid-continent region: Kansas, Oklahoma, Missouri, Arkansas. 1986.

**HWY 2.** Southern Rocky Mountain region: Utah, Colorado, Arizona, New Mexico. 1990.

**HWY 3.** Pacific Southwest region: California, Nevada. 1968.

**HWY 4.** Mid-Atlantic region: Kentucky, Tennessee, South Carolina, North Carolina, West Virginia, Virginia, Maryland, Delaware. 1989.

**HWY 5.** Northern Rocky Mountain region: Montana, Wyoming, Idaho. 1973.

**HWY 6.** Pacific Northwest region: Washington, Oregon, Idaho (in part). 1972.

**HWY 7.** Texas. 1973.

**HWY 9.** Southeastern region: Alabama, Florida, Georgia, Louisiana, Mississippi. 1975.

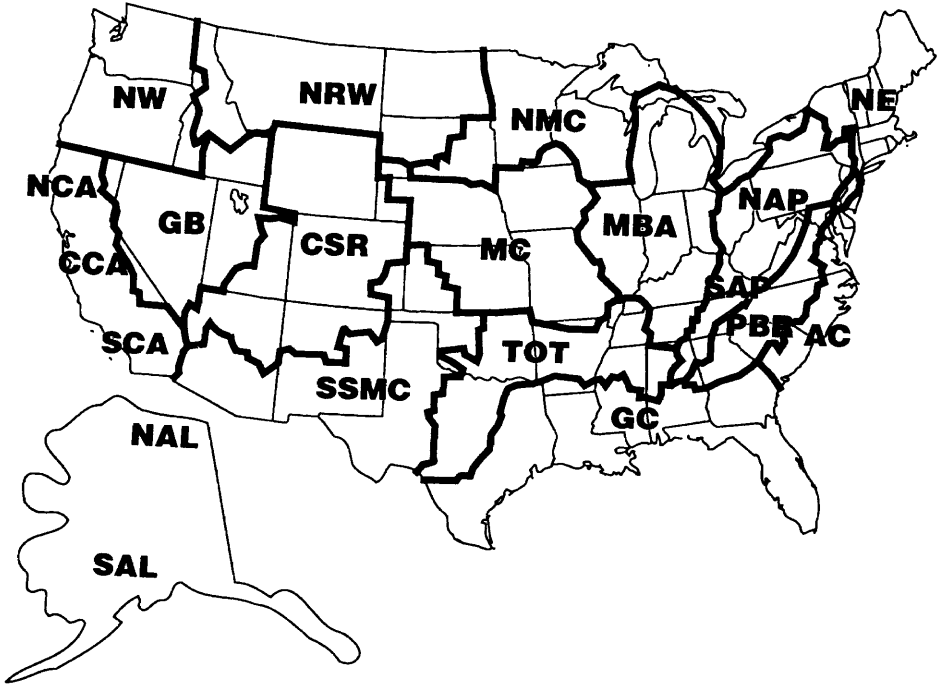
**HWY 10.** Northeastern region: Pennsylvania, New York, New Jersey, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, Maine. 1976.

**HWY 11.** Great Lakes region: Wisconsin, Michigan, Illinois, Ohio, Indiana. 1978.

**HWY 12.** Northern Great Plains region: North Dakota, South Dakota, Iowa, Nebraska, and Minnesota. 1984.

## COSUNA Charts

Color stratigraphic correlation charts also show global and North American chronostratigraphic units. Prepared by regional working groups of the Correlation of Stratigraphic Units of North America (COSUNA) Project. Orlo E. Childs, Grant Steele, and Amos Salvador, project directors. F. Alan Lindberg, map editor. Each chart is a folded single sheet in a 9 x 12-inch envelope. \$6.00 each.



### Available Charts:

Northern Rockies/Williston Basin (NRW)

Atlantic Coastal Plan (AC)

Norther California Region (NCA)

Central California Region (CCA)

Southern California Region (SCA)

Northern Midcontinent Region (NMC)

Southern Appalachian Region (SAP)

Northern Appalachian Region (NAP)

Midwestern Basin and Arches Region (MBA)

Great Basin Region (GB)

New England Region (NEO)

Northern Alaska (NAL)

Southern Alaska (SAL)

Piedmont/Blue Ridge (PBR)

Northwest Region (NW)

# Bureau of Economic Geology

## The University of Texas at Austin

**Atlas of Major Midcontinent Gas Reservoirs:** Summary of information from 530 gas reservoirs in Oklahoma, Kansas, and Arkansas that have produced at least 10 Bcf of natural gas (D. G. Bebout, W. A. White, T. F. Hentz, and M. K. Grasmick, editors). 85-page atlas in a 17 x 22-inch format with 4 color plates showing (1) producing stratigraphic unit and major structural elements, (2) plays and depositional environment of reservoir facies, (3) reservoir lithology, and (4) trapping mechanism. Reservoirs are categorized into 28 plays on the basis of geologic attributes such as lithology, geologic age, trap type, and depositional environment. 32 tables, 404 figures, scale 1:1,000,000. 1993. \$38.00.

**Geologic Atlas of Texas:** Published by the Bureau of Economic Geology, The University of Texas at Austin, these color geologic maps are all on the 1° × 2°, 1:250,000-scale AMS base. \$6.00 each, folded in envelope.

**Perryton** sheet. 1970. Includes parts of Texas, Beaver, Ellis, and Harper Counties, Oklahoma.

**Amarillo** sheet. 1969. Adjoins Beckham, Roger Mills, and Ellis Counties, Oklahoma.

**Plainview** sheet. 1968. Adjoins Harmon County, Oklahoma.

**Texarkana** sheet. 1966. Includes parts of Bryan, Choctaw, and McCurtain Counties, Oklahoma. A 7-page booklet of explanation is enclosed.

**Dalhart** sheet. 1984. Includes Cimarron County and part of Texas County, Oklahoma. An 8-page booklet of explanation is enclosed.