



Annotated Bibliography of the Kansas Precambrian

By
Daniel F. Merriam

SPECIAL DISTRIBUTION PUBLICATION 8



**State Geological Survey
The University of Kansas, Lawrence, Kansas
1964**

STATE GEOLOGICAL SURVEY OF KANSAS

W. Clarke Wescoe, M. D., Chancellor of The University and ex officio Director of the Survey

Frank C. Foley, Ph.D., State Geologist and Director

William W. Hambleton, Ph.D., Assoc. State Geologist and Assoc. Director

Raymond C. Moore, Ph.D., Sc.D., Principal Geologist Emeritus

John M. Jewett, Ph.D., Senior Geologist

Doris E. Nodine Zeller, Ph.D., Editor

Grace M. Muilenburg, B.S., Public Information Director

Kenneth J. Badger, Chief Draftsman

Lila M. Watkins, Secretary

Research Divisions

Division Head

Basic Geology. Daniel F. Merriam, Ph.D.

Petrography. Ada Swineford, Ph.D.

Geochemistry. Frederic R. Siegel, Ph.D.

Mineral Resources. Allison L. Hornbaker, M.S.

Oil and Gas. Edwin D. Goebel, M.S.

Ceramics. Norman Plummer, A.B.

Cooperative Studies with United States Geological Survey

Ground-Water Resources. Robert J. Dingman, B.S., District Geologist

Mineral Fuels W. L. Adkison, B.S., geologist in charge

Branch Offices

Geological Survey Well Sample Library, 4150 Monroe, Wichita

Geological Survey Southwest Kansas Field Office, 310 N. 9th Street, Garden City

ANNOTATED BIBLIOGRAPHY OF THE KANSAS PRECAMBRIAN

by

Daniel F. Merriam

The first publication dealing with buried Precambrian rocks of Kansas appeared in 1893 and was concerned with the occurrence of granite in a deep oil-well test in the eastern part of the state. Since that time many references to the basement complex have been made in numerous articles; some of the citations are merely notes of interest whereas others are works of major importance. In response to recent continent-wide studies, and because of the information available (nearly 2,400 wells have encountered the Precambrian basement), there has been renewed interest in the Precambrian of Kansas, and the state serves as a focal point for Midcontinent Precambrian studies.

Much of the information cited here was collected during the last five years as a result of activities of the Kansas Basement Rocks Committee of the Kansas Geological Society in compiling information on wells drilled into Precambrian rock in the state. The main objective of the committee, collecting data, is near completion, and results of preliminary studies are now being made available. This annotated bibliography of material available through 1963 is another in a series of contributions which hopefully will facilitate future studies.

The literature was thoroughly searched in order that the list be as complete as possible. Because numerous reports contain some reference to the Kansas Precambrian, the more important ones are indicated with an asterisk (*). It was impossible to check every published item on the geology of Kansas, but it is believed that there is no major omission from the list. Theses from The University of Kansas, Kansas State University, and Wichita University were checked and the appropriate ones listed; several theses from other schools are also included. The first seven volumes of the Kansas Oil Scouts Association were not available for inspection.

I would like to thank other members of the Kansas Basement Rocks Committee, including V. B. Cole, P. C. Franks, W. W. Hambleton, and R. P. Lehman, for checking the list. E. D. Goebel of the Kansas Survey was most helpful in locating certain information and kindly reviewed the list. E. G. Lidiak and R. E. Denison of the Basement Rocks Project of the Advanced Research Projects Agency also checked the list. S. S. Liggett and R. G. Gerhard of the Kansas Survey helped prepare the material.

ABERNATHY, G. E., 1939, Oil and gas exploration map, Labette County, Kansas: Kansas Geol. Survey, Map 67.

Gives information on one well that reached the Precambrian in Labette County.

ABERNATHY, G. E., 1940, Oil and gas in Montgomery County, Kansas: Kansas Geol. Survey Bull. 31, p. 1-29.

Lists information on three wells drilled to Precambrian in Montgomery County.

ABERNATHY, G. E., 1941, Ground-water resources of Mississippian and older rocks in Bourbon, Crawford, Cherokee, and Labette Counties, southeastern Kansas: Kansas Geol. Survey Bull. 38, pt. 8, p. 221-236.

Gives brief information on four Precambrian wells in southeastern Kansas.

ADAMS, J. W., 1959, Rocks of the Precambrian basement and those immediately overlying it in Missouri and parts of adjacent states: unpubl. master's thesis, Missouri Univ., p. 1-342.

In addition to detailed discussion on Precambrian in Missouri, gives information on 22 Precambrian wells in eastern Kansas and three detailed petrographic descriptions.

ADKISON, W. L., 1963, Subsurface geologic cross section of Paleozoic rocks from Butler County to Stafford County, Kansas: Kansas Geol. Survey Oil and Gas Inv. 28, p. 1-90.

Contains information on two wells reaching the Precambrian surface in south-central Kansas.

AGOCS, W. B., 1959, Comparison of basement depths from aeromagnetics and wells along the northern border of Kansas, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 143-152.

Discusses basement depth determination from aeromagnetic information.

AGOCS, W. B., 1959, Airborne magnetometer profiles, Morris and Wabaunsee Counties, Kansas, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 175-180.

Discusses relation of airborne magnetometer profiles to the basement configuration.

ALLAN, T. H., and VALERIUS, M. M., 1929, Fairport oil field, Russell County, Kansas, in Structure of typical American oil fields, v. 1: Am. Assoc. Petroleum Geologists, p. 35-48.

Lists nine wells reaching Precambrian in and adjacent to the Fairport oil field in Russell County.

AURIN, F. L., CLARK, G. C., and TRAGER, E. A., 1921, Notes on the subsurface pre-Pennsylvanian stratigraphy of the northern Midcontinent oil fields: Am. Assoc. Petroleum Geologists Bull., v. 5, no. 2, p. 117-153.

Shows several Precambrian wells on cross sections and lists a few granite wells in southeastern Kansas.

BARWICK, J. S., 1928, The Salina Basin of north-central Kansas: Am. Assoc. Petroleum Geologists Bull., v. 12, no. 2, p. 177-199.

Shows several granite wells on a generalized cross section.

BASS, N. W., 1929, The geology of Cowley County, Kansas: Kansas Geol. Survey Bull. 12, p. 1-203.

Lists several wells drilled into rocks of Precambrian age in Cowley County.

BAYSINGER, B. L., 1963, A magnetic investigation of the Nemaha Anticline in Wabaunsee, Geary and Riley Counties, Kansas: unpubl. master's thesis, Kansas State Univ., p. 1-47.

Contains a map on the Precambrian, a cross section with Precambrian information, and discussion on relation of magnetic anomalies to basement.

- * COLE, V. B., 1962, Configuration of top of Precambrian basement rocks in Kansas: Kansas Geol. Survey Oil and Gas Inv. 26, map.

More than 2,100 Precambrian wells plus countless other deep tests were used to construct this excellent configuration map on top of the Precambrian basement in Kansas.

- COLE, V. B., and KOESTER, E. A., 1945, Review of exploration and development in 1944: Am. Assoc. Petroleum Geologists Bull., v. 29, no. 6, p. 701-707.

First published information of Pennsylvanian rocks on Precambrian, in the discovery well of the Adell pool, Sheridan County, Kansas.

- * COLE, V. B., and MERRIAM, D. F., 1962, Progress report of the Kansas Basement Rocks Committee and additional Precambrian wells: Kansas Geol. Survey Bull. 157, pt. 2, p. 1-11.

List of 84 Precambrian wells and five potassium-argon age dates.

- * COLE, V. B., MERRIAM, D. F., FRANKS, P. C., HAMBLETON, W. W., and HILPMAN, P. L., 1961, Wells drilled into Precambrian rock in Kansas: Kansas Geol. Survey Bull. 150, p. 1-169.

Information on more than 2,100 wells known to reach Precambrian rocks in Kansas.

- * COLE, V. B., MERRIAM, D. F., and HAMBLETON, W. W., 1963, Kansas Basement Rocks Committee report for 1962 and additional Precambrian wells: Kansas Geol. Survey Bull. 165, pt. 4, p. 1-10.

A list of 112 wells known to reach the Precambrian in Kansas.

- COLLINS, J. B., 1947, Subsurface geologic cross section from Trego County, Kansas, to Cheyenne County, Colorado: Kansas Geol. Survey Oil and Gas Inv. 5, cross sec.

Six Precambrian wells are shown on cross section in west-central Kansas.

- COOK, K. L., 1956, Regional gravity survey in northeastern Oklahoma and southeastern Kansas: Geophysics, v. 21, no. 1, p. 88-106.

Discusses relation of gravity anomalies to variations of density in Precambrian basement.

- DARTON, N. H., 1919, The structure of parts of the central Great Plains: U. S. Geol. Survey Bull. 691-A, p. 1-26.

Lists several granite wells, many drilled prior to 1902, between 96°-100° longitude.

- DILLARD, W. R., OAK, D. P., and BASS, N. W., 1941, Chanute oil pool, Neosho County, Kansas---A water-flooding operation, in Stratigraphic type oil fields: Am. Assoc. Petroleum Geologists, p. 57-77.

One well in Chanute oil field reached Precambrian.

- DOTT, R. H., 1941, Regional stratigraphy of Midcontinent: Am. Assoc. Petroleum Geologists Bull., v. 25, no. 9, p. 1619-1705.

Shows generalized location of Precambrian tests in Kansas and surrounding areas.

- EDSON, F. C., 1929, Pre-Mississippian sediments in central Kansas: Am. Assoc. Petroleum Geologists Bull., v. 13, no. 5, p. 441-458.

Contains information on several wells that reached Precambrian surface in Kansas.

- EDSON, F. C., 1945, Subsurface geologic cross section from Ford County to Wallace County, Kansas: Kansas Geol. Survey Oil and Gas Inv. 1, cross sec.

One well that reached the Precambrian was used in a cross section in western Kansas.

- FARQUHAR, O. C., 1956, Precambrian subsurface of Kansas (abs.): Geol. Soc. America Bull., v. 67, no. 12, pt. 2, p. 1694.

A brief description of the Kansas Precambrian.

FARQUHAR, O. C., 1957, List of Precambrian wells in Kansas, December 31, 1956: Kansas Geol. Survey open-file report, p. 1-162.

Preliminary list of approximately 1,300 wells reaching the Precambrian in Kansas.

* FARQUHAR, O. C., 1957, The Precambrian rocks of Kansas: Kansas Geol. Survey Bull. 127, pt. 3, p. 49-122.

First comprehensive state-wide report on Precambrian rocks in Kansas. Names many detailed petrographic descriptions and has a preliminary rock-type distribution map.

* FATH, A. E., 1920, The origin of the faults, anticlines, and buried "granite ridge" of the northern part of the Midcontinent oil and gas field: U. S. Geol. Survey Prof. Paper 128C, p. 75-84.

Discussion of Precambrian basement in relation to origin of Midcontinent structures.

FATH, A. E., 1921, Geology of the Eldorado oil and gas field: Kansas Geol. Survey Bull. 7, p. 1-187.

Contains information on several wells reaching the Precambrian in Butler County and a discussion on the origin of the buried "granite ridge."

FOGARTY, C. F., 1952, Subsurface geology of the Denver Basin: unpubl. doctoral dissertation, Colorado Sch. Mines, p. 1-197.

Shows configuration of Precambrian surface in western Kansas and adjacent areas and wells reaching Precambrian. Discusses basement fabric and relation to structure on Dakota rocks.

FOLGER, ANTHONY, 1933, Development of the oil and gas resources of Kansas in 1928 and 1929: Kansas Geol. Survey Min. Res. Circ. 2, pt. 1, p. 1-105.

Contains brief information on several wells reaching the Precambrian in Kansas.

FOLGER, ANTHONY and others, 1931, Geologic cross section of the central United States: Kansas Geol. Soc. 5th Field Conf. Guidebook, cross sec.

Shows 15 wells on a cross section that reach Precambrian rock.

GOEBEL, E. D., and MERRIAM, D. F., 1960, Kansas-Nebraska---Midamerica's latest exploration payoff: Oil and Gas Jour., v. 58, no. 17, p. 171-172, 174.

Information on one well reaching the Precambrian surface in Rawlins County.

GOEBEL, E. D., and others, 1956, Oil and gas developments in Kansas during 1955: Kansas Geol. Survey Bull. 122, p. 1-249.

Contains information on wells reaching the Precambrian surface in 1955.

GOEBEL, E. D., and others, 1957, Oil and gas developments in Kansas during 1956: Kansas Geol. Survey Bull. 128, p. 1-250.

Contains information on wells reaching the Precambrian surface in 1956.

GOEBEL, E. D., and others, 1958, Oil and gas developments in Kansas during 1957: Kansas Geol. Survey Bull. 133, p. 1-264.

Contains information on wells reaching the Precambrian surface in 1957.

GOEBEL, E. D., and others, 1959, Oil and gas developments in Kansas during 1958: Kansas Geol. Survey Bull. 138, p. 1-228.

Contains information on wells reaching the Precambrian surface in 1958.

GOEBEL, E. D., and others, 1960, Oil and gas developments in Kansas during 1959: Kansas Geol. Survey Bull. 147, p. 1-254.

Contains information on wells reaching the Precambrian surface in 1959.

GOEBEL, E. D., and others, 1961, Oil and gas developments in Kansas during 1960: Kansas Geol. Survey Bull. 155, p. 1-229.

Contains information on wells reaching the Precambrian surface in 1960.

- GOEBEL, E. D., and others, 1962, Oil and gas developments in Kansas during 1961: Kansas Geol. Survey Bull. 160, p. 1-231.
- Contains information on wells reaching the Precambrian surface in 1961.
- GOEBEL, E. D., and others, 1963, Oil and gas developments in Kansas during 1962: Kansas Geol. Survey Bull. 166, p. 1-165.
- Contains information on wells reaching the Precambrian surface in 1962.
- * GOULD, C. N., 1923, Crystalline rocks of the plains: Geol. Soc. America Bull., v. 34, p. 541-560.
- Generalized discussion of Precambrian basement rocks and crystalline intrusives in part of the Midcontinent. Contains list of Precambrian wells in Kansas.
- * GREENE, F. C., 1925, Granite wells in the northern Midcontinent region: Am. Assoc. Petroleum Geologists Bull., v. 9, no. 2, p. 351-354.
- Includes list of granite wells in Kansas.
- GREENE, F. C., 1925, Various types of granite form largest group in Midcontinent: Oil and Gas Jour., v. 24, no. 22, p. 69, 133.
- List of granite wells in Kansas.
- GRENNIA, J. D., 1960, Precambrian topography and rock types: Missouri Geol. Survey and Water Res., map.
- Contains information on eight eastern Kansas Precambrian wells.
- HALL, R. H., 1933, Development of the oil and gas resources of Kansas in 1930: Kansas Geol. Survey Min. Res. Circ. 2, pt. 2, p. 107-174.
- Includes information on several wells reaching the Precambrian basement.
- * HAWORTH, ERASMUS, 1915, On crystalline rocks in Kansas: Kansas Geol. Survey Bull. 2, p. 1-33.
- General information on Precambrian rocks in Kansas known as of 1915.
- * HAWORTH, ERASMUS, and BENNETT, JOHN, 1908, General stratigraphy, in Special report on oil and gas: Kansas Univ. Geol. Survey, v. 9, p. 57-121.
- Contains information on first wells reaching the Precambrian basement.
- * HAY, ROBERT, 1893, Note on the occurrence of granite in a deep boring in eastern Kansas: Kansas Acad. Sci. Trans., v. 13, p. 75-76.
- First report of granite in the subsurface of Kansas.
- HAYES, W. C., 1961, Precambrian rocks, in The stratigraphic succession in Missouri: Missouri Geol. Survey and Water Res., 2nd. ser., v. 40, p. 10-12.
- Shows 11 wells in eastern Kansas on a Precambrian rock type distribution map for Missouri.
- HIESTAND, T. C., 1935, Regional investigations, Oklahoma and Kansas: Am. Assoc. Petroleum Geologists Bull., v. 19, no. 7, p. 948-970.
- Shows two wells on a cross section in central Kansas reaching the Precambrian basement.
- HILPMAN, P. L., 1958, Producing zones of Kansas oil and gas fields: Kansas Geol. Survey Oil and Gas Inv. 16, p. 1-10.
- Contains information on fields that produce from Precambrian rocks.
- HILPMAN, P. L., 1959, Petroleum hotspot report, Riley County, Kansas: Kansas Geol. Survey, p. 1-11.
- Lists wells reaching the Precambrian in Riley County, Kansas

- HILPMAN, P. L., 1961, Petroleum hotspot report, Osage County, Kansas: Kansas Geol. Survey, p. 1-12.
- Lists Precambrian wells in Osage County, Kansas.
- HILPMAN, P. L., and GOEBEL, E. D., 1960, Petroleum hotspot report, Geary County, Kansas: Kansas Geol. Survey, p. 1-10.
- Shows two Precambrian wells in Geary County on a cross section.
- IRELAND, H. A., 1946, Maps of northeastern Oklahoma and parts of adjacent states showing the thickness and subsurface distribution of Lower Ordovician and Upper Cambrian rocks below the Simpson Group: U. S. Geol. Survey Prelim. Map 52, 1 sheet.
- Shows location of wells which reach the Precambrian surface in southeastern Kansas and adjacent areas.
- IRELAND, H. A., 1955, Precambrian surface in northeastern Oklahoma and parts of adjacent states: Am. Assoc. Petroleum Geologists Bull., v. 39, no. 4, p. 468-483.
- Contains information on many wells reaching the Precambrian surface in southeastern Kansas.
- JENNY, W. P., 1932, Magnetic vector study of regional and local geologic structure in principle oil states: Am. Assoc. Petroleum Geologists Bull., v. 16, no. 12, p. 1177-1203.
- Discusses relation of magnetic vectors to Precambrian surface in Kansas.
- JEWETT, J. M., 1941, The geology of Riley and Geary Counties, Kansas: Kansas Geol. Survey Bull. 39, p. 1-164.
- Contains information on test wells reaching the Precambrian surface in Riley and Geary Counties.
- JEWETT, J. M., 1949, Oil and gas in eastern Kansas: Kansas Geol. Survey Bull. 77, p. 1-308.
- Contains information on many wells reaching the Precambrian surface in eastern Kansas.
- JEWETT, J. M., 1951, Geologic structures in Kansas: Kansas Geol. Survey Bull. 90, pt. 6, p. 105-172.
- Contains generalized information on relation of some structures in Kansas to the Precambrian basement.
- * JEWETT, J. M., 1954, Oil and gas in eastern Kansas: Kansas Geol. Survey Bull. 104, p. 1-397.
- Contains information on many wells reaching the Precambrian surface in eastern Kansas. Also contains a configuration map by J. S. Porter on the Precambrian surface in eastern Kansas.
- JEWETT, J. M., and ABERNATHY, G. E., 1945, Oil and gas in eastern Kansas: Kansas Geol. Survey Bull. 57, p. 1-244.
- Contains information on many wells reaching the Precambrian surface in eastern Kansas.
- JEWETT, J. M., and MERRIAM, D. F., 1959, Geologic framework of Kansas: a review for geophysicists, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 9-52.
- Discusses in generalities the Precambrian rocks and surface in Kansas.
- JEWETT, J. M., and SMITH, R. K., 1949, Oil-bearing rocks in Kansas: Mines Mag., v. 39, no. 12, p. 85-89, 90, 100.
- Gives information on oil and gas production from rocks of Precambrian age.
- JOPLIN, D. W., and CASHION, KENDALL, 1959, Regional gravity of Kansas, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 121-133.
- Shows relation of gravity profile to geologic cross sections, some wells of which encounter the Precambrian surface.

KANSAS GEOLOGICAL SOCIETY, 1956, Kansas oil and gas pools, v. 1, south-central Kansas, p. 1-100.

Individual articles contain reference to Precambrian wells on maps and cross sections.

KANSAS GEOLOGICAL SOCIETY, 1959, Kansas oil and gas fields, v. 2, western Kansas, p. 1-208.

Individual articles contain reference to Precambrian wells on maps and cross sections.

KANSAS GEOLOGICAL SOCIETY, 1960, Kansas oil and gas fields, v. 3, northeastern Kansas, p. 1-220.

Individual articles contain reference to Precambrian wells on maps and cross sections.

KANSAS GEOLOGICAL SOCIETY STUDY GROUP, 1951, West-east cross section, northern Kansas: Kansas Geol. Soc., cross sec.

Shows four wells on an electric log cross section reaching the Precambrian basement.

KANSAS GEOLOGICAL SOCIETY STUDY GROUP, 1956, West-east electrical log cross section, southeastern Kansas: Kansas Geol. Soc., cross sec.

Two Precambrian wells shown on an electric log cross section in southeastern Kansas.

KANSAS GEOLOGICAL SOCIETY STUDY GROUP, 1956, North-south electrical log cross section, eastern Kansas: Kansas Geol. Soc., cross sec.

Two Precambrian wells shown on an electric log cross section in southeastern Kansas.

KANSAS OIL SCOUTS ASSOCIATION, 1939, Kansas oil and gas field development, 1938: National Oil Scouts and Landman's Assoc. Yearbook, v. 9, p. 78-94.

Notes production from Precambrian rocks in the Guldner field in Rice County.

KANSAS OIL SCOUTS ASSOCIATION, 1940, Kansas oil and gas field development, 1939: National Oil Scouts and Landman's Assoc. Yearbook, v. 10, p. 104-135.

Contains information on several wells that reach the Precambrian surface and notes production from Precambrian rocks in the Gurney field, Russell County, and Orth field, Rice County.

KANSAS OIL SCOUTS ASSOCIATION, 1941, Kansas oil and gas field development, 1940: National Oil Scouts and Landman's Assoc. Yearbook, v. 11, p. 117-136.

Lists oil production from Precambrian rocks in the Orth East field, Rice County.

KANSAS OIL SCOUTS ASSOCIATION, 1943, Kansas oil and gas field development, 1942: National Oil Scouts and Landman's Assoc. Yearbook, v. 13, p. 187-228.

Contains information on wells reaching and oil fields producing from Precambrian rocks.

KANSAS OIL SCOUTS ASSOCIATION, 1944, Kansas oil and gas field development, 1943: National Oil Scouts and Landman's Assoc. Yearbook, v. 14, p. 165-205.

Contains information on wells reaching and oil fields producing from Precambrian rocks.

KANSAS OIL SCOUTS ASSOCIATION, 1945, Kansas oil and gas field development, 1944: National Oil Scouts and Landman's Assoc. Yearbook, v. 15, p. 207-257.

Contains information on wells reaching and oil fields producing from Precambrian rocks.

KANSAS OIL SCOUTS ASSOCIATION, 1946, Kansas oil and gas field development, 1945: National Oil Scouts and Landman's Assoc. Yearbook, v. 16, p. 215-261.

Contains information on wells reaching and oil fields producing from Precambrian rocks.

- KANSAS OIL SCOUTS ASSOCIATION, 1947, Kansas oil and gas field development, 1946: National Oil Scouts and Landman's Assoc. Yearbook, v. 17, p. 193-242.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1948, Kansas oil and gas field development, 1947: National Oil Scouts and Landman's Assoc. Yearbook, v. 18, p. 184-229.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1949, Kansas oil and gas field development, 1948: National Oil Scouts and Landman's Assoc. Yearbook, v. 19, p. 208-255.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1950, Kansas oil and gas field development, 1949: National Oil Scouts and Landman's Assoc. Yearbook, v. 20, p. 225-281.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1951, Kansas oil and gas field development, 1950: National Oil Scouts and Landman's Assoc. Yearbook, v. 21, p. 224-278.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1952, Kansas oil and gas field development, 1951: National Oil Scouts and Landman's Assoc. Yearbook, v. 22, p. 219-292.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1953, Kansas oil and gas field development, 1952: National Oil Scouts and Landman's Assoc. Yearbook, v. 23, p. 224-305.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1954, Kansas oil and gas field development, 1953: National Oil Scouts and Landman's Assoc. Yearbook, v. 24, p. 211-294.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1955, Kansas oil and gas field development, 1954: National Oil Scouts and Landman's Assoc. Yearbook, v. 25, p. 251-337.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1956, Kansas oil and gas field development, 1955: National Oil Scouts and Landman's Assoc. Yearbook, v. 26, p. 257-344.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1957, Kansas oil and gas field development, 1956: National Oil Scouts and Landman's Assoc. Yearbook, v. 27, p. 256-350.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1958, Kansas oil and gas field development, 1957: National Oil Scouts and Landman's Assoc. Yearbook, v. 28, p. 230-309.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.
- KANSAS OIL SCOUTS ASSOCIATION, 1959, Kansas oil and gas field development, 1958: National Oil Scouts and Landman's Assoc. Yearbook, v. 29, p. 259-338.
- Contains information on wells reaching and oil fields producing from Precambrian rocks.

KANSAS OIL SCOUTS ASSOCIATION, 1960, Kansas oil and gas development, 1959: Internat. Oil Scouts Assoc., v. 30, pt. 1, p. 171-221, and pt. 2, p. 175-244.

Contains information on wells reaching and oil fields producing from Precambrian rocks.

KANSAS OIL SCOUTS ASSOCIATION, 1961, Kansas oil and gas development, 1960: Internat. Oil Scouts Assoc., v. 31, pt. 1, p. 90-114, and pt. 2, p. 116-185.

Contains information on wells reaching and oil fields producing from Precambrian rocks.

KELLETT, BETTY, 1932, Geologic cross section from western Missouri to western Kansas: Kansas Geol. Soc., cross sec.

Shows numerous wells reaching the Precambrian on a cross section across central Kansas.

* KEROHER, R. P., and KIRBY, J. J., 1948, Upper Cambrian and Lower Ordovician rocks in Kansas: Kansas Geol. Survey Bull. 72, p. 1-140.

Information on many wells reaching the Precambrian, and on the rocks overlying the Precambrian basement complex.

KESLER, L. W., 1928, Oil and gas resources of Kansas in 1927: Kansas Geol. Survey Min. Res. Circ. 1, p. 1-60.

Information on a well that penetrated almost 1300 feet of Precambrian rocks in Barton County.

KING, W. R., 1956, Pre-Permian handbook of the Hugoton Embayment: Liberal Geol. Soc., p. 1-212.

Contains information on one deep test to the Precambrian and one deep test in southwestern Kansas.

KOESTER, E. A., 1934, Development of the oil and gas resources of Kansas in 1931 and 1932: Kansas Geol. Survey Min. Res. Circ. 3, p. 1-76.

Contains information on several tests that reached the Precambrian.

KOESTER, E. A., 1935, Geology of the Central Kansas Uplift: Am. Assoc. Petroleum geologists Bull., v. 19, no. 10, p. 1405-1426.

Information on Precambrian rocks and their importance in structural formation of the Central Kansas Uplift.

KOESTER, E. A., 1942, Developments in north Midcontinent in 1941: Am. Assoc. Petroleum Geologists Bull., v. 26, no. 6, p. 1073-1085.

Notes Precambrian oil production in Ray Southeast field, Rooks County, Kansas.

KOONS, D. L., 1956, Faulting as a possible origin of the formation of the Nemaha Anticline: unpubl. master's thesis, Kansas State Univ., p. 1-33.

Contains a map contoured on the Precambrian surface in northeast Kansas with a list of control points.

KORNFELD, J. A., 1939, Precambrian peaks cause shallow lime production over Central Kansas Uplift: Oil Weekly, v. 94, no. 1, p. 24, 25, 28, 30.

Contains list of Precambrian tests on the Central Kansas Uplift.

* KORNFELD, J. A., 1941, Stratigraphic traps source of major production over Central Kansas Uplift: Oil Weekly, v. 100, no. 6, p. 13-19, and no. 7, p. 20-30.

Contains information on wells reaching the Precambrian surface. Has a map showing configuration on top of Precambrian rocks in Central Kansas. In addition to information on fields producing from Precambrian rocks and a discussion of "granite wash."

KULSTAD, R. O., and others, 1958, Mineral resources of Elk County, Kansas: Kansas Geol. Survey, v. 14, pt. 2, p. 27-37.

Wells reaching the Precambrian surface in Elk County are shown on the county map.

- * LANDES, K. K., 1927, A petrographic study of Precambrian of Kansas: Am. Assoc. Petroleum Geologists Bull., v. 11, no. 8, p. 821-824.

An early study on the Precambrian rock types of Kansas.

- LANDES, K. K., 1939, Oil production from Precambrian rocks in Kansas (abs.): Oil Weekly, v. 93, no. 3, p. 74.

Notes all production from Precambrian rocks in the Orth pool, Rice County, and Gurney and Hall pools in Russell County.

- LANDES, K. K., and KEROHER, R. P., 1938, Geology and oil and gas resources of Rush County: Kansas Geol. Survey Min. Res. Circ. 4, p. 1-31.

Contains information on wells reaching the Precambrian surface in Rush County.

- LANDES, K. K., and KEROHER, R. P., 1939, Geology and oil and gas resources of Logan, Gove, and Trego Counties, Kansas: Kansas Geol. Survey Min. Res. Circ. 11, p. 1-45.

Contains information on wells reaching the Precambrian surface in west-central Kansas.

- LANDES, K. K., and KEROHER, R. P., 1942, Mineral resources of Phillips County: Kansas Geol. Survey Bull. 41, pt. 8, p. 277-312.

Contains information on Precambrian wells drilled in Phillips County.

- LANDES, K. K., and OCKERMAN, J. W., 1930, The geology of Mitchell and Osborne Counties, Kansas: Kansas Geol. Survey Bull. 16, p. 1-55.

Contains information on one deep Precambrian test in Osborne County.

- LANDES, K. K., and others, 1960, Petroleum resources in basement rocks: Am. Assoc. Petroleum Geologists Bull., v. 44, no. 10, p. 1682-1691.

Contains information on oil fields producing from Precambrian rocks in Kansas.

- LANG, A. J., and VER WIEBE, W. A., 1954, Unusual rock in Hodgeman County, Kansas: Wichita Univ. Bull., Univ. Studies 30, v. 29, no. 4, p. 1-4.

Describes an unusual rock of Precambrian age in Hodgeman County.

- LEE, WALLACE, 1943, The stratigraphy and structural development of the Forest City Basin in Kansas: Kansas Geol. Survey Bull. 51, p. 1-142.

Contains generalized information on wells reaching the Precambrian surface in the Forest City Basin in Kansas.

- LEE, WALLACE, 1956, Stratigraphy and structural development of the Salina Basin Area: Kansas Geol. Survey Bull. 121, p. 1-167.

Contains information on wells reaching the Precambrian surface in and adjacent to the Salina Basin in Kansas.

- LEE, WALLACE, LEATHEROCK, CONSTANCE, and BOTINELLY, THEODORE, 1948, The stratigraphy and structural development of the Salina Basin of Kansas: Kansas Geol. Survey Bull. 74, p. 1-155.

Contains information on wells reaching the Precambrian surface in and adjacent to the Salina Basin in Kansas.

- LEE, WALLACE, and MERRIAM, D. F., 1954, Cross sections in eastern Kansas: Kansas Geol. Survey Oil and Gas Inv. 12, p. 1-8.

Several wells are shown to reach the Precambrian basement complex on the cross section.

- LEE, WALLACE, and others, 1946, Structural development in Kansas, Iowa, and Nebraska: U. S. Geol. Survey Oil and Gas Inv., Prelim. Map 48, 7 sheets.

Shows thickness of rocks overlying the Precambrian basement in northeastern Kansas and location of control points encountering basement rocks.

LEY, H. A., 1926, The granite ridge of Kansas: Am. Assoc. Petroleum Geologists Bull., v. 10, no. 1, p. 95-96.

Very brief discussion on pre-Pennsylvanian paleogeography of the granite ridge.

LEY, H. A., 1926, Mississippi lime west of the granite ridge in Kansas: Am. Assoc. Petroleum Geologists Bull., v. 10, no. 1, p. 96-97.

Contains information on two Precambrian wells in south-central Kansas.

LUGN, A. L., 1934, Pre-Pennsylvanian stratigraphy of Nebraska: Am. Assoc. Petroleum Geologists Bull., v. 18, no. 12, p. 1597-1631.

Shows Precambrian wells and configuration of Precambrian surface in northern Kansas.

LYONS, P. L., 1959, The Greenleaf anomaly, a significant gravity feature, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 105-120.

Shows configuration of and distribution of Precambrian rock types in eastern Kansas. Discusses the relation of the Greenleaf gravity anomaly to basement features.

McCLELLAN, H. W., 1930, Subsurface distribution of pre-Mississippian rocks of Kansas and Oklahoma: Am. Assoc. Petroleum Geologists Bull., v. 14, no. 12, p. 1535-1556.

Information on two wells that reached the Precambrian surface.

McCLELLAN, H. W., 1940, Forest City Basin chances enhanced by oil strike: Oil Weekly, v. 96, no. 13, p. 17-20.

Shows several wells on a cross section that reached the Precambrian surface, and distribution of pre-Mississippian units in the Forest City Basin and adjacent areas.

MCCOY, A. W., and KEYTE, W. R., 1934, Present interpretations of the structural theory for oil and gas migration and accumulation, in Problems of petroleum geology: Am. Assoc. Petroleum Geologists, p. 253-307.

Contains information on two wells reaching the Precambrian in southeastern Kansas.

MAHER, J. C., 1946, Subsurface geologic cross section from Ness County, Kansas, to Lincoln County, Colorado: Kansas Geol. Survey Oil and Gas Inv. 2, cross sec.

Shows one well on a cross section reaching Precambrian rocks in Kansas.

MAHER, J. C., and COLLINS, J. B., 1949, Pre-Pennsylvanian geology of southwestern Kansas, southeastern Colorado, and the Oklahoma Panhandle: U. S. Geol. Survey Oil and Gas Inv., Prelim. Map 101, 4 sheets.

Gives information on several wells reaching the Precambrian surface in southwestern Kansas.

MARTZ, W. H., JR., 1960, Developments in north Midcontinent in 1959: Am. Assoc. Petroleum Geologists Bull., v. 44, no. 6, p. 742-751.

Contains information on several wells reaching the Precambrian surface in 1959.

MARTZ, W. H., JR., 1962, Developments in north Midcontinent in 1961: Am. Assoc. Petroleum Geologists Bull., v. 46, no. 6, p. 842-851.

Contains information on several wells reaching the Precambrian surface in 1961.

MEHL, R. L., 1958, Subsurface Paleozoic geology of northwestern Kansas, southwestern Nebraska, and northeastern Colorado: unpubl. master's thesis, Kansas Univ., p. 1-56.

Shows structure on top of the Precambrian surface in northwestern Kansas and adjacent areas.

MERRIAM, D. F., 1955, Structural development of the Hugoton Embayment: Proc. 4th. Symposium on Subsurface Geology, Oklahoma Univ., p. 81-97.

A brief discussion of Precambrian rocks in the Hugoton Embayment.

- MERRIAM, D. F., 1960, Drillers keep busy in northern Kansas: Oil and Gas Jour., v. 58, no. 42, p. 164-165, 168-170.
- Information on one well reaching the Precambrian surface in east-central Kansas.
- MERRIAM, D. F., 1961, The geologic history of Kansas: unpubl. doctoral dissertation, Kansas Univ., p. 1-475.
- Generalized discussion of Precambrian rocks in Kansas.
- * MERRIAM, D. F., 1962, History of Precambrian studies in Kansas: Kansas Acad. Sci. Trans., v. 65, no. 4, p. 433-447.
- Discussion of maps showing configuration of the Precambrian surface in Kansas.
- * MERRIAM, D. F., 1963, The geologic history of Kansas: Kansas Geol. Survey Bull. 162, p. 1-317.
- Gives a generalized discussion of Precambrian rocks in Kansas.
- MERRIAM, D. F., and ATKINSON, W. R., 1955, Tectonic history of the Cambridge Arch in Kansas: Kansas Geol. Survey Oil and Gas Inv. 13, p. 1-28.
- A brief description of Precambrian rocks on the Cambridge Arch and a cross section showing eight wells reaching the Precambrian in northwestern Kansas.
- * MERRIAM, D. F., COLE, V. B., and HAMBLETON, W. W., 1961, Distribution of Precambrian basement rock types in Kansas: Am. Assoc. Petroleum Geologists Bull., v. 45, no. 12, p. 2018-2024.
- Preliminary report on distribution of different rock types of the Precambrian basement complex.
- MERRIAM, D. F., and GOEBEL, E. D., 1954, The geology of the Norton oil field, Norton County, Kansas: Kansas Geol. Survey Bull. 109, pt. 9, p. 125-152.
- List of wells reaching Precambrian rocks in Norton County and configuration map on top of the Precambrian surface.
- MERRIAM, D. F., and GOEBEL, E. D., 1956, Kansas' structural provinces offer varied types of traps: Oil and Gas Jour., v. 54, no. 52, p. 141, 143-145, 147-149, 151, 153-154.
- A brief mention of the Precambrian in Kansas.
- MERRIAM, D. F., and GOEBEL, E. D., 1959, Where's the oil in Kansas?: Oil and Gas Jour., v. 57, no. 11, p. 212-218.
- Gives information on oil fields producing from Precambrian rocks on the Central Kansas Uplift.
- MERRIAM, D. F., and HAMBLETON, W. W., 1956, Relation of an airborne magnetic profile to the geology along the Kansas-Nebraska border: Kansas Geol. Survey Bull. 119, pt. 7, p. 251-266.
- Discussion on relation of an airborne magnetic profile to configuration of the Precambrian basement and a list of Precambrian wells along the Kansas-Nebraska border.
- MERRIAM, D. F., and HAMBLETON, W. W., 1959, Relation of magnetic and aeromagnetic profiles to geology in Kansas, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 153-173.
- Shows wells reaching Precambrian surface on several cross sections and discusses relation of magnetic profiles to basement rocks.
- MERRIAM, D. F., HAMBLETON, W. W., and COLE, V. B., 1962, Precambrian basement rock types in Midcontinent region (abs.): Am. Assoc. Petroleum Geologists Bull., v. 46, no. 2, p. 272.
- Very brief discussion of Precambrian rock types in the Midcontinent region.

- * METTNER, F. E., 1935, Contour map showing topography of Precambrian surface underlying eastern two-thirds of Kansas: Kansas Geol. Survey, Map 61.

Map showing configuration of Precambrian surface in eastern part of Kansas.

- * METTNER, F. E., 1936, The Precambrian basement complex of Kansas: unpubl. master's thesis, Kansas Univ., p. 1-59.

Detailed description of Precambrian rocks in Kansas and configuration map showing eastern two-thirds of the state. Contains list of Precambrian wells.

- * MOORE, R. C., 1918, Geologic history of the crystalline rocks of Kansas: Am. Assoc. Petroleum Geologists Bull., v. 2, p. 98-113.

Discussion of Precambrian rocks in Kansas and list of wells reaching the Precambrian surface.

- * MOORE, R. C., 1920, The relation of the buried granite in Kansas to oil production: Am. Assoc. Petroleum Geologists Bull., v. 4, no. 3, p. 255-261.

Contains first-known published configuration map of the Precambrian surface in Kansas.

- MOORE, R. C., 1920, Oil and gas resources of Kansas: Kansas Geol. Survey Bull. 6, pt. 2, p. 1-98.

Very generalized and short discussion of Precambrian rocks in Kansas.

- MOORE, R. C., 1922, Buried granite in Kansas (abs.): Geol. Soc. America Bull., v. 33, p. 96-98.

A brief discussion on the shape of the Precambrian surface in Kansas.

- MOORE, R. C., 1926, Early Pennsylvanian deposits west of the Nemaha granite ridge, Kansas: Am. Assoc. Petroleum Geologists Bull., v. 10, no. 3, p. 205-216.

Two Precambrian wells are shown on a cross section in central Kansas.

- * MOORE, R. C., and HAYNES, W. P., 1917, Oil and gas resources of Kansas: Kansas Geol. Survey Bull. 3, p. 1-391.

One chapter devoted to the crystalline rocks of Kansas. Records of individual wells encountering the Precambrian surface along with a historical note.

- * MOORE, R. C., and JEWETT, J. M., 1942, Oil and gas fields of Kansas: Mines Mag., v. 32, no. 10, p. 481-488, 515-520, 524, 526, 538, 560.

Includes a configuration map on the Precambrian surface of the entire state.

- * MOORE, R. C., and LANDES, K. K., 1927, Underground resources of Kansas: Kansas Geol. Survey Bull. 13, p. 1-154.

Includes a configuration map of the Precambrian surface in eastern Kansas.

- MOORE, R. C., and others, 1951, The Kansas rock column: Kansas Geol. Survey Bull. 89, p. 1-132.

Contains information on two Precambrian wells.

- MORGAN, L. C., 1931, Notes on the Precambrian of western Kansas: Kansas Stratigraphical Society Meeting Jan. 20, 1931, Abstract No. 2 (mimeo copy), p. 1-2.

Generalized brief discussion of Precambrian rocks of Kansas.

- MORGAN, L. C., 1935, Precambrian studies in central Kansas: Am. Assoc. Petroleum Geologists Wichita Meeting, March 21, 1935.

Not seen.

- MOSS, R. G., 1934, Configuration of the present surface of buried Precambrian rocks east of the Rocky Mountains (abs.): Geol. Soc. America Proc. 1933, p. 101.

An announcement of completion of a configuration map on the Precambrian surface for part of the United States.

- * MOSS, R. G., 1936, Buried Precambrian surface in the United States: Geol. Soc. America Bull., v. 47, p. 935-966.

Configuration of Precambrian surface in Kansas and adjoining areas and discussion of major structures.

- MOSS, R. G., 1938, Developments in Kansas in 1937: Am. Assoc. Petroleum Geologists Bull., v. 22, no. 6, p. 666-676.

Information on two tests to reach the Precambrian surface in western Kansas.

- NELSON, P. D., 1952, The reflection of the basement complex in the surface structures of the Marshall-Riley County area of Kansas: unpubl. master's thesis, Kansas State Univ., p. 1-73.

Contains a configuration map of the Precambrian surface in Riley and Marshall Counties and a list of Precambrian wells.

- OCKERMAN, J. W., 1935, Subsurface studies in northeastern Kansas: Kansas Geol. Survey Bull. 20, p. 1-78.

Contains information on several wells reaching the Precambrian surface in northeastern Kansas.

- O'CONNOR, H. G., and others, 1951, Mineral resources of Chase County Kansas: Kansas Geol. Survey, v. 11, pt. 2, p. 16-28.

Contains information on wells that reach the Precambrian surface in Chase County.

- O'CONNOR, H. G., and others, 1953, Mineral resources of Lyon County, Kansas: Kansas Geol. Survey, v. 12, pt. 2, p. 24-35.

Contains information on wells that reach the Precambrian surface in Lyon County.

- O'CONNOR, H. G., and others, 1955, Mineral resources of Osage County, Kansas: Kansas Geol. Survey, v. 13, pt. 2, p. 20-28.

Contains information on wells that reach the Precambrian surface in Osage County.

- OJAKANGAS, R. W., 1960, The stratigraphy and petrology of the Lamotte Formation in Missouri: unpubl. master's thesis, Missouri Univ., p. 1-271.

Contains information on five wells reaching the Precambrian in eastern Kansas.

- OLSON, D. R., 1956, Subsurface geology of McPherson County, Kansas: unpubl. master's thesis, Kansas State Univ., p. 1-49.

Contains map on Precambrian surface and shows control points.

- POSTLEY, O. C., 1940, Map of Kansas showing the oil and gas fields and geologic ages of the producing formation in the fields: U. S. Geol. Survey, map.

Map showing location of fields producing from Precambrian rocks.

- * POWERS, SIDNEY, 1917, Granites in Kansas: Am. Jour. Sci., 4th. ser., v. 44, p. 146-150.

Information on buried granite in eastern Kansas and list of Precambrian wells.

- * POWERS, SIDNEY, 1922, Reflected buried hills and their importance in petroleum geology: Econ. Geology, v. 17, p. 233-259.

Discussion of the buried Precambrian surface in the Midcontinent region and information on wells reaching the Precambrian surface in Kansas.

- PUGH, E. E., JR., 1963, Developments in north Midcontinent in 1962: Am. Assoc. Petroleum Geologists, v. 47, no. 6, p. 1007-1012.

Contains information on several wells reaching the Precambrian surface in 1962.

REEVES, J. R., 1929, El Dorado oil field, Butler County, Kansas, in Structure of typical American oil fields, v. 2: Am. Assoc. Petroleum Geologists, p. 160-167.

Contains information on one well reaching the Precambrian in the El Dorado oil field, Butler County, Kansas.

RIEB, S. L., 1954, Structural geology of the Nemaha ridge in Kansas: unpubl. master's thesis, Kansas State Univ., p. 1-40.

Contains map contoured on Precambrian surface, list of well data, and discussion on structural development of the Nemaha ridge.

ROACH, C. F., and others, 1962, Kansas oil and gas development, 1961: Internat. Oil Scouts Assoc., v. 32, pt. 1, p. 80-106, and pt. 2, p. 85-129.

Contains information on wells reaching, and oil fields producing from, Precambrian rocks.

SCHRAMM, E. F., 1931, Precambrian wells, in Deep wells of Nebraska: Nebraska Geol. Survey Bull. 4, 2nd ser., p. 281-286.

A list of wells encountering the Precambrian surface in Kansas and surrounding areas.

SHARRICK, A. N., 1951, Developments in north Midcontinent in 1950: Am. Assoc. Petroleum Geologists Bull., v. 35, no. 6, p. 1227-1234.

Notes discovery of oil in Precambrian rocks in Calf Creek oil field, Rice County.

SILER, J. C., 1958, Correlations of subsurface Upper Cambrian and Lower Ordovician strata in Ellis County, Kansas, by insoluble residues: unpubl. master's thesis, Kansas Univ., p. 1-66.

Contains information on many wells reaching the Precambrian surface in Ellis County.

*SKEHAN, J. W., S. J., 1963, Geology of the basement complex of southeastern Nebraska, northeastern Kansas and vicinity: Air Force Cambridge Res. Lab. Scientific Rept. No. 1, p. 1-57.

Complete report, including list of wells and contoured maps, on geology of basement rocks of northeastern Kansas and adjacent areas.

SMITH, A. J., 1914, Deep wells at Elmdale: Kansas Acad. Sci. Trans., v. 27, p. 50-52.

Contains information on one well reaching the Precambrian at Elmdale, Kansas.

SMITH, R. K., and ANDERS, E. L., JR., 1951, The geology of the Davis Ranch oil pool, Wabaunsee County, Kansas: Kansas Geol. Survey Bull. 90, pt. 2, p. 13-52.

Information on wells reaching the Precambrian surface in Wabaunsee County.

SPINNEY, W. A., 1929, An interesting Kansas cross section: Oil and Gas Jour., v. 28, no. 8, p. 118-119.

Contains information on five wells that penetrated the Precambrian surface in central and southeastern Kansas.

STERNIN, J. E., 1961, Subsurface geology of Geary and Morris Counties: unpubl. master's thesis, Kansas State Univ., p. 1-62.

Contains map contoured on Precambrian surface and shows two Precambrian wells on a cross section.

STRYKER, W. L., 1925, Subsurface geology of Wilson County, Kansas: Am. Assoc. Petroleum Geologists Bull., v. 9, no. 8, p. 1207-1214.

Information on one deep well that reached the Precambrian surface in Wilson County.

SWETT, E. R., 1959, The subsurface expression of the Zeandale Dome: unpubl. master's thesis, Kansas State Univ., p. 1-59.

Lists five wells known to reach the Precambrian on the Zeandale Dome.

*TAYLOR, C. H., 1917, The granites of Kansas: Southwestern Assoc. Petroleum Geologists Bull., v. 1, p. 111-126.

Information on wells reaching the Precambrian surface in Kansas and discussion of the age of the encountered granite.

THOMAS, C. R., 1929, Flank production of the Nemaha mountains (granite ridge) Kansas, in Structure of typical American oil fields, v. 1: Am. Assoc. Petroleum Geologists, p. 60-72.

Information on two wells reaching the Precambrian surface shown on a cross section in eastern Kansas.

THOMAS, C. R., 1929, Oil on ancient Nemaha uplift: Pan-Am. Geologist, v. 51, no. 3, p. 207-216.

Shows two wells on a cross section that reach the Precambrian surface in eastern Kansas.

THWAITES, F. T., and HOWELL, J. V., 1935, Structural map on top of the Precambrian: Kansas Geol. Soc. 9th. Field Conf. Guidebook, fig. 227.

Configuration map on top of the Precambrian surface for eastern part of Kansas and adjacent areas.

TIBBETTS, B. L., 1958, Subsurface geology of Norton County, Kansas: unpubl. master's thesis, Kansas State Univ., p. 1-55.

Contains a map on the Precambrian for Norton County.

VER WIEBE, W. A., 1938, Oil and gas resources of western Kansas: Kansas Geol. Survey Min. Res. Circ. 10, p. 1-179.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1939, Western Kansas oil and gas developments during 1938: Kansas Geol. Survey Min. Res. Circ. 13, p. 1-106.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1940, Exploration for oil and gas in western Kansas during 1939: Kansas Geol. Survey Bull. 28, p. 1-106.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1941, Exploration for oil and gas in western Kansas during 1940: Kansas Geol. Survey Bull. 36, p. 1-109.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1942, Exploration for oil and gas in western Kansas during 1941: Kansas Geol. Survey Bull. 42, p. 1-123.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1943, Exploration for oil and gas in western Kansas during 1942: Kansas Geol. Survey Bull. 48, p. 1-88.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1944, Exploration for oil and gas in western Kansas during 1943: Kansas Geol. Survey Bull. 54, p. 1-104.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1945, Exploration for oil and gas in western Kansas during 1944: Kansas Geol. Survey Bull. 56, p. 1-112.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1946, Exploration for oil and gas in western Kansas during 1945: Kansas Geol. Survey Bull. 62, p. 1-112.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., 1947, Exploration for oil and gas in western Kansas during 1946: Kansas Geol. Survey Bull. 68, p. 1-111.

Information on several wells reaching the Precambrian surface in western Kansas.

VER WIEBE, W. A., and others, 1948, Oil and gas developments in Kansas during 1947: Kansas Geol. Survey Bull. 75, p. 1-230.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1949, Oil and gas developments in Kansas during 1948: Kansas Geol. Survey Bull. 78, p. 1-186.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1950, Oil and gas developments in Kansas during 1949: Kansas Geol. Survey Bull. 87, p. 1-176.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1951, Oil and gas developments in Kansas during 1950: Kansas Geol. Survey Bull. 92, p. 1-187.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1952, Oil and gas developments in Kansas during 1951: Kansas Geol. Survey Bull. 97, p. 1-188.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1953, Oil and gas developments in Kansas during 1952: Kansas Geol. Survey Bull. 103, p. 1-201.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1954, Oil and gas developments in Kansas during 1953: Kansas Geol. Survey Bull. 107, p. 1-204.

Information on several wells reaching the Precambrian surface in Kansas.

VER WIEBE, W. A., and others, 1955, Oil and gas developments in Kansas during 1954: Kansas Geol. Survey Bull. 112, p. 1-215.

Information on several wells reaching the Precambrian surface in Kansas.

WAGNER, H. C., 1961, Geology of the Altoona Quadrangle, Kansas: U. S. Geol. Survey Geologic Quadrangle Map GQ-149.

Gives information on one well reaching the Precambrian in Wilson County, Kansas.

*WALTERS, R. F., 1946, Buried Precambrian hills in northeastern Barton County, central Kansas: Am. Assoc. Petroleum Geologists Bull., v. 30, no. 5, p. 660-710; abstract, Geol. Soc. America Bull., v. 56, no. 12, pt. 2, p. 1210, 1945; Tulsa Geol. Soc. Digest 1945-46, p. 50, 1946; World Oil, v. 126, no. 10, p. 28-33, 1947.

Detailed information on wells reaching the Precambrian surface in central Kansas, the relation of overlying units on the Precambrian surface, and history of the buried Precambrian hills.

*WALTERS, R. F., 1953, Oil production from fractured Precambrian basement rocks in central Kansas: Am. Assoc. Petroleum Geologists Bull., v. 37, no. 2, p. 300-313.

Contains information in detail on wells producing from Precambrian rocks on the Central Kansas Uplift in central Kansas.

WALTERS, R. F., and PRICE, A. S., 1948, Kraft-Prusa oil field, Barton County, Kansas, in Structure of typical American oil fields, v. 3: Am. Assoc. Petroleum Geologists, p. 249-280.

Contains information on wells that reach the Precambrian surface in the Kraft-Prusa oil field, Barton County, central Kansas.

WEIRICH, T. E., 1953, Shelf principle of oil origin, migration, and accumulation: Am. Assoc. Petroleum Geologists Bull., v. 37, no. 8, p. 2027-2045.

Discusses pre-Pennsylvanian geology of eastern Kansas in relation to the Nemaha Anticline and early Pennsylvanian sediments.

WILLIAMS, D. W., 1921, Oil and gas in Marion, Chase, Dickinson, Morris, and Geary Counties, Kansas: Am. Assoc. Petroleum Geologists Bull., v. 5, no. 4, p. 507-511.

Gives a list of granite wells in east-central Kansas.

WILLIAMS, G. Q., 1954, Developments in north Midcontinent in 1953: Am. Assoc. Petroleum Geologists Bull., v. 38, no. 6, p. 1107-1119.

Includes information on wells reaching the Precambrian surface in Kansas in 1953.

WILLIAMS, G. Q., 1955, Developments in north Midcontinent in 1954: Am. Assoc. Petroleum Geologists Bull., v. 39, no. 6, p. 879-890.

Includes information on wells reaching the Precambrian surface in Kansas in 1954.

WILLIAMS, G. Q., 1956, Developments in north Midcontinent in 1955: Am. Assoc. Petroleum Geologists Bull., v. 40, no. 6, p. 1138-1151.

Includes information on wells reaching the Precambrian surface in Kansas in 1955.

WILLIAMS, G. Q., 1957, Developments in north Midcontinent in 1956: Am. Assoc. Petroleum Geologists Bull., v. 41, no. 6, p. 1074-1088.

Includes information on wells reaching the Precambrian surface in Kansas in 1956.

WILLIAMS, G. Q., 1958, Developments in north Midcontinent in 1957: Am. Assoc. Petroleum Geologists Bull., v. 42, no. 6, p. 1207-1219.

Includes information on wells reaching the Precambrian surface in Kansas in 1957.

WILLIAMS, G. Q., 1959, Developments in north Midcontinent in 1958: Am. Assoc. Petroleum Geologists Bull., v. 43, no. 6, p. 1208-1220.

Includes information on wells reaching the Precambrian surface in Kansas in 1958.

WOOLLARD, G. P., 1943, Transcontinental gravitational and magnetic profile of North America and its relation to geologic structure: Geol. Soc. America Bull., v. 54, p. 747-790.

Discusses relation of geophysical profiles to geology and Precambrian rocks across the central part of Kansas.

WOOLLARD, G. P., 1959, The relation of gravity to geology in Kansas, in Symposium on geophysics in Kansas: Kansas Geol. Survey Bull. 137, p. 63-103.

Discusses the relation of gravity anomalies to Precambrian basement structure in Kansas.

WORDEN, J. A., 1959, Amarillo-Hugoton: fast-growing giant: Oil and Gas Jour., v. 57, no. 44, p. 128-130; v. 57, no. 45, p. 124-126.

Generalized configuration map on the Precambrian surface of southwestern Kansas and adjacent areas.

* WRIGHT, PARK, 1918, Granite in Kansas wells: Am. Inst. Min. Eng. Trans., v. 57, p. 906-913.

List of wells encountering granite in Kansas and their significance.

Special
Distribution
Publication

1. The Kansas mineral industry . . . 1962; with directory of Kansas mineral producers, by Grace Muilenburg, R. G. Hardy, and Allison Hornbaker, 1963.
2. Economic development for Kansas, mineral and water resources: Report of the Governor's Economic Development Committee, by W. W. Hambleton and others, 1962.
3. BALGOL program for trend-surface mapping using an IBM 7090 computer, by J. W. Harbaugh, 1963.
4. FORTRAN II program for coefficient of association (Match-Coeff) using an IBM 1620 computer, by R. L. Kaesler, F. W. Preston, and Donald Good, 1963.
5. Activities of State Geological Survey of Kansas, biennium ending June 30, 1963, by Grace Muilenburg, 1963.
6. Summary secondary recovery operations in Kansas during 1962: Report of the Kansas Secondary Recovery Committee, by E. D. Goebel and M. C. Colt, 1964.
7. The Kansas mineral industry . . . 1963; with directory of Kansas mineral producers, by Allison Hornbaker and R. G. Hardy, 1964.
8. Annotated bibliography of the Kansas Precambrian, by D. F. Merriam, 1964.

