PUBLISHED PAPERS ON OKLAHOMA GEOLOGY
IN THE YEAR 1956

Compiled by Neville M. Curtis, Jr.

Adams, L. J., Oil and gas field development in United States and
XXVI, Year Book 1956, pp. 605-687, 1193-1207, 4 maps, cor-
relation chart east-central Oklahoma, general geologic sec-
tion of Oklahoma. Discoveries, geophysical and core drill
prospecting, and oil, gas, and gas condensate fields in Okla-
homa.

Amsden, T. W., Additional fossils from the Hunton group, Okla-
homa. Okla. Geology Notes, vol. 16, no. 12 (Dec., 1956),
pp. 138-139. Five fossil names should be added to Catalog of
Hunton fossils, Okla. Geol. Survey, Circ. 33.

Amsden, T. W., Notes on Parmorthis brownsportensis and Isorthis
arcuaria from the Henryhouse and Brownsport formations.
Okla. Geology Notes, vol. 16, no. 8 (Aug., 1956), pp. 78-85,
3 figs., 2 tables. Levennea subcarinata (Hall) from the Har-
gan formation is distinguished from Parmorthis brownspor-
tensis and Isorthis arcuaria found in the Henryhouse and
Brownsport formations.

Amsden, T. W., Catalog of fossils from the Hunton group. Okla.

Andress, B. O., Southwest Velma stepout scores. Oil and Gas Jour.,
vol. 54, no. 46 (March 19, 1956), pp. 322, 324-326, 4 figs. New
discovery possibilities are increased by new evidence of
thrust-faulting west of Southwest Velma oil field, Stephens
County, Oklahoma.

Arbenz, J. K., Tectonic map of Oklahoma, Okla. Geol. Survey,
Map GM-3 (1956), colored, scale 1:750,000.

Aresco, S. J., Haller, C. P., and Abernethy, R. F., Analyses of
tipple and delivered samples of coal (collected during the
Investigations 5270 (Oct., 1956), p. 26. Table lists chemical
and physical data of coal samples from Latimer and McIn-
tosh Counties, Oklahoma.

Armbrust, B. F., Jr. and Kuroda, P. K., On the isotopic constitu-
tion of radium (Ra - 224/Ra - 226 and Ra - 228/Ra - 226) in
petroleum brines, Trans. Amer. Geophysical Union, vol. 37,
no. 2 (April, 1956), pp. 216-220, 1 fig., 3 tables. Radium
isotope measurements are listed for brine samples from 5
areas in Oklahoma.

Baker, V. R., Notes on post Wellington faulting in the North
Garber field, Garfield County, Oklahoma. Okla. Acad. Sci.
fault, striking N. 7° E., and dipping approximately 50 de-
grees east is traced through the North Garber field.

Barby, B. G., Subsurface geology of the Pennsylvanian and Upper
Mississippian of Beaver County, Oklahoma. Shale Shaker,
vol. 6, no. 10 (June, 1956), pp. 9-32, 13 figs. Stratigraphic and low-relief structural traps affect Ordovician to Tertiary in the Panhandle.


Branson, C. C., Cyclic formations or mappable units. Okla. Geology Notes, vol. 16, no. 11 (Nov., 1956), pp. 122-126. 1 fig. Correlation chart lists "The Kansas Rock Column" (1951) and new simplified nomenclature of Pennsylvanian and early Permian rocks in Kansas and Oklahoma.

Branson, C. C., Hartshorne formation. early Desmoinesian. Oklahoma. Okla. Geology Notes, vol. 16, no. 9 (Sept., 1956), pp. 93-99, 3 figs., 1 table. It is proposed that beds from base of
Des Moines series (top of Atoka formation where present) to top of Upper Hartshorne coal be referred to as the Hartshorne formation.


Burwell, A. L., Basic magnesium carbonate from dolomite. Okla. Geology Notes, vol. 16, no. 9 (Sept., 1956), pp. 91-92. Royer dolomite (Arbuckle Mountain area) and dolomites from McKenzie Hill formation (Comanche County) may be used as raw material for the Pattison process.


exploiting reservoir which could have been abandoned as non commercial.


Cline, L. M., Some stratigraphic studies of the Mississippian and Pennsylvanian rocks of the Ouachita Mountains, Oklahoma. Tulsa Geol. Soc. Digest, vol. 24 (1956), pp. 100-106, 1 fig. Stratigraphy of Ouachita Mountains and evidence used in concluding that lower portion of Johns Valley shale and underlying Jackfork group are Mississippian.

7-33, 2 figs., 7 plates, 2 tables.


Curtis, N. M., Jr., Some facts about Oklahoma uranium. Okla. Geology Notes, vol. 16, no. 10 (Oct., 1956), pp. 106-120, 4 figs., 2 tables. Recent discoveries in Oklahoma, services available to people searching for uranium, and regulations affecting uranium search and development.


Edinger, W. M., Five-spot water-flood unit ups production 38,000 barrels. Oil and Gas Jour., vol. 54, no. 69 (Aug. 27, 1956), pp. 82-85, 1 fig., 1 map, 4 tables. Northwest Tryon field in Lincoln County has 23 input wells, 17 producers, and one water-supply well.


Enright, R. J., Wildcatting success secret: play it big. Oil and Gas Jour., vol. 54, no. 59 (June 18, 1956), pp. 130-132, 5 figs. The British American No. 2 Harrison well, in Grady County, is deepest producer in Oklahoma.


Flawn, P. T., Basement rocks of Texas and southwest New Mexico. Bur. Econ. Geology, Univ. Texas, no. 5605 (March 1, 1956), 2 figs., 3 plates, 12 tables, 10 photomicrographs. Tentative correlation chart of Precambrian rocks and discussion of structural events in Texas, southern Oklahoma, and southwest New Mexico. Igneous rocks of Arbuckle and Wichita Mountains are discussed.


Gardner, F. J., Two strikes in McAlester-Arkansas lend wildcatters hopes. Oil and Gas Jour., vol. 54, no. 48 (April 2, 1956), p. 179. Two important gas discoveries indicate good possibilities for oil in pre-Pennsylvanian rocks in McAlester Basin.


Godfrey, J. M., The subsurface geology of the Mannsville-Madill
anticline. Shale Shaker, vol. 6, no. 9 (May, 1956), pp. 7-80, 4 figs., 5 plates, 2 tables.


Harris, D. G., Meramec and Lower Chester strata of northeastern Oklahoma, southwestern Missouri, and northwestern Arkansas. The Compass, vol. 33, no. 3 (March, 1956), pp. 228-272, 7 figs., 6 tables, 24 measured sections. A study of the paleontology, sedimentation, and stratigraphy of Meramec and Lower Chester strata in area.


Hayes, J. A., Jr., Mississippian production in the Osage. World Oil, vol. 142, no. 2 (Feb., 1956), pp. 85-86, 88, 2 figs. Important quantities of oil in Mississippian cherts and limestones is nucleus of new interest in Osage County, Oklahoma.


Hill, J. R., Geophysical history of the Golden Trend of Oklahoma. Geophysical Case Histories, vol. 2 (1956), pp. 563-574, 3 figs. Isopachous maps were made from geophysical data and pinch out zones were tested in Garvin County Golden Trend area.


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Hunter, Z. Z., 8½ million extra barrels in 6 years. Oil and Gas Jour., vol. 54, no. 69 (August 27, 1956), pp. 86-89, 4 figs. Account of water-flood method used in the North Burbank unit of Osage County, Oklahoma.


Lasky, B. H., Earth temperatures, alteration studies reflect subsurface structure. World Oil, vol. 143, no. 7 (Dec., 1956), pp. 116-121, 1 fig. Discusses surface mineralization or alteration studies as a means of mapping subsurface structure. Ramsey field area, Payne County, Oklahoma, used as an example.


McCaslin, J. C., New exploratory era on northern shelf. Oil and Gas Jour., vol. 54, no. 50 (April 16, 1956), pp. 286-290, 1 fig. Regional importance of shelf sediments indicated by Ordovician discoveries in southwestern Kansas and northwestern Oklahoma.


Maravich, M. D. and Morrisey, N. S., Developments in Oklahoma in 1955. Amer. Assoc. Petroleum Geologists, Bull., vol. 40, no. 6 (June, 1956), pp. 1152-1161, 2 figs., 9 tables. Exploratory drilling decreased in Oklahoma in 1955 but development drilling was up 6 percent.

Merriam, D. F., Hugoton embayment commands fresh look. Oil and Gas Jour., vol. 54, no. 44 (March 5, 1956), pp. 82-86. First Arbuckle production west of the Central Kansas uplift brightens Embayment's oil future.


Miller, H. W., Jr., The index value of Silurian Foraminifera and some new forms from wells in Kansas. Jour. Paleontology, vol. 30, no. 6 (Nov., 1956), pp. 1350-1359, 1 fig. Stratigraphic and geographic range of all species of Silurian Foraminifera in North America. Oklahoma is included.

Miller, R. W., Panhandle and Hugoton areas. Panhandle Geo-News, vol. 3, no. 2 (Feb., 1956), pp. 8-21, 3 tables, 1 fig. Name, age, and depth of producing formations and oil and gas production figures for 1954 in Panhandle and Hugoton area.


Morrisey, N. S., Here's where tools are turning to the right. Oil and Gas Jour., vol. 54, no. 75 (Oct. 8, 1956), pp. 213-225. Geological data, footage prices, costs, etc. reported for most active oil fields in Oklahoma.

Morrisey, N. S., Gas reserves increase in new Harper County field. Oil and Gas Jour., vol. 54, no. 61 (July 2, 1956), p. 166, 2 figs. Four separate pay zones discovered south and east of La- verne, Harper County, Oklahoma.

Morrisey, N. S., Cherokee trend stretches out 30 miles. Oil and Gas Jour., vol. 54, no. 53 (May 7, 1956), pp. 176-177, 2 figs., 2 tables. Pay zones and drilling procedures described for recent stratigraphic production in Alfalfa and Grant Counties, Oklahoma.


Murphy, L. M. and Cloud, W. K., United States earthquakes 1954. U. S. Dept. Commerce, Coast and Geodetic Survey, serial no. 793 (1956), pp. 9, 69, 1 table. Four tremors reported with about the same intensities on three successive days (April 11, 12, and 13) in 1954 at Holdenville, Oklahoma.


Oakes, M. C., The Hogshooter formation in Creek County, Okla- homa. Okla. Acad. Sci. Proc., vol. 35 (1956), p. 90. Earlier mapping of Hogshooter formation in Creek County is substantially correct and unit may be correlated with the Hogshooter in Okfuskeee County, Oklahoma.

Oklahoma Geological Survey, Geology along the Turner Turn- pike. Guide Book IV (April, 1956), pp. 1-76, 3 figs., 7 plates, 2 stratigraphic subsurface sections. Contains road log and strip map (3 inches to mile), Tulsa to Oklahoma City, topographic and geologic profile, historical sites, and oil and gas fields.


Skarda, Everett, Oklahoma’s fractured Viola limestone reservoir. Oil and Gas Jour., vol. 54, no. 43 (Feb. 27, 1956), pp. 109-112, 5 figs. Discussion of problems encountered in a complex carbonate fracture system in southern Oklahoma.

Sohn, I. G., The transformation of opaque calcium carbonate to translucent calcium fluoride in fossil Ostracoda. Jour. Paleontology, vol. 30, no. 1 (Jan., 1956), pp. 113-114, 1 fig., 1 plate. Laboratory procedure includes treatment with hydrofluoric acid, Bairdia whitesidei from Devils Kitchen member of Deese formation in Love County, Oklahoma, used as example.


Stair, Ralph, Tektites and the lost planet. Sci. Monthly, vol. 83, no. 1 (July, 1956), pp. 3-12, 12 figs., 1 table. Tektites (glassy meteorites) may aid in a better understanding of earth’s origin. One specimen is from Delhi, Beckham County, Oklahoma.


Taaffe, Francis, Published papers on Oklahoma geology in the year 1955. Okla. Geology Notes, vol. 16, nos. 5-6 (May-June, 1956), pp. 43-55. Annotated bibliography.


Tanner, W. F., Superposed streams of the Arbuckle Mountains. Shale Shaker, vol. 6, no. 6 (Feb., 1956), pp. 14-15, 1 fig. Radial stream pattern in the Arbuckle Mountains of southern Oklahoma suggests that the uplift was formerly covered by a thick blanket of sediments, perhaps Cretaceous.


121, 1 map. Structure and general stratigraphy of area.

Thomas, N. O. and Harbeck, G. E., Jr., U.S. Geol. Survey, Water supply Paper 1360-A (1956), pp. 1-99, 3 figs., 2 tables, 1 map. Descriptive data: reservoirs in Oklahoma with capacity of 5,000 acre-feet or more of water; natural lakes with usable capacity of 5,000 acre-feet or more; reservoirs and lakes completed as of January 1, 1954; reservoirs under construction.


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Westby, G. H., The discovery by reflection seismograph of a small producing structure in Okmulgee County, Oklahoma. Geo-
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Winland, H. D., Insoluble residue study and correlation of the Arbuckle group in southern Oklahoma, Shale Shaker, vol. 6, no. 5 (Jan., 1956), pp. 7-29, 8 figs. Section of Arbuckle group in Murray and Carter Counties measured and correlated with section of Arbuckle group in northeastern Kiowa County. Correlation based on insoluble residue and differential thermal analyses.


Yochelson, E. L., Permian Gastropoda of the Southwestern United States. 1. Euomphalacea, Trochonematacea, Pseu-