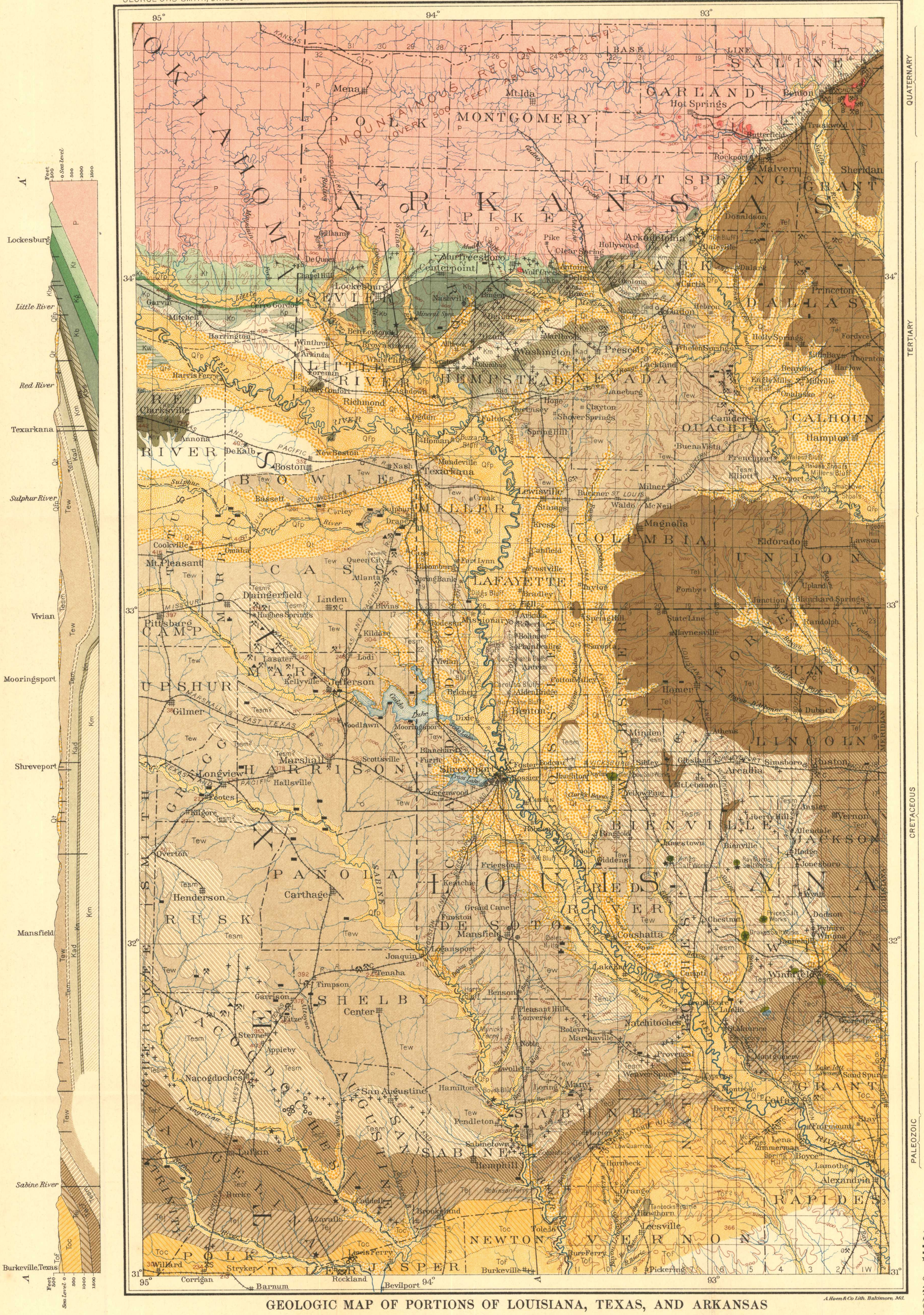

LEGEND

SURFICIAL DEPOSITS

QUATERNARY

Recent

Qfp — **Flood-plain deposits** *(silts and clays, in many places forming but a thin mantle over the older beds)*

Pleistocene

Qt — **Port Hudson group undifferentiated** *(terraces or terrace remnants, only partially represented.)*

SEDIMENTARY ROCKS

TERTIARY

Oligocene

Tof — **Fleming clay** *(green calcareous clays)*

Toc — **Catahoula formation** *(green clays with irregular beds of sandstone)*

Eocene

Tel — **Jackson formation** *(sandy marls and clays)*

Claiborne group

Teof — **Cockfield formation** *(lignitiferous sand and clay without marine fossils)*

Tesm — **St. Maurice formation** *(fossiliferous clays, argillaceous limestone and calcareous glauconite) In Texas differentiated into Cook Mountain and Mount Selman formations*

Tew — **Wilcox ("Sabine") formation** *(lignitiferous sand and clays)*

Tem — **Midway formation** *(black calcareous clays and white limestones)*

Tel — **Undifferentiated Eocene** *(lignitiferous sands and clay without distinctive marine fossils)*

CRETACEOUS

GULF SERIES (Upper Cretaceous)

Outliers not definitely correlated *(limestones and fossiliferous clays)*

Kad — **Arkadelphia clay** *(dark-colored calcareous clays)*

Knv — **Navarro formation and Taylor marl** *(undifferentiated sands, clays, and marls)*

Km — **Marlbrook marl** *(blue, chalky, somewhat glauconitic marls and impure chalk)*

Austin group

Ka — **Annona chalk** *(white chalk)*

Kbs — **Brownstown marl** *(blue clay marl)*

Fredericksburg group

Kef — **Eagle Ford clay** *(fossiliferous calcareous clays)*

Kb — **Bingen sand** *(chiefly sands, with sandy clay and lignitiferous matter)*

Kw — **Woodbine sand** *(sands with lentils of clay containing lignitic and plant remains)*

COMANCHE SERIES (Lower Cretaceous)

Washita group

Kd — **Denison formation**

Kf — **Fort Worth limestone**

Kp — **Preston formation**

Fredericksburg group

Kg — **Goodland limestone**

Kt — **Trinity sand** *(fine yellowish pack sand with some conglomerate and clay)*

PALEOZOIC

P — **Undifferentiated Paleozoic** *(shales, sandstones, and novaculites)*

IGNEOUS ROCKS

- \+ Noteworthy locality of marine fossils
- ⊕ Noteworthy locality of fossil plants
- ■ Lignite outcrop
- ♣ Lignite opening
- ★ Abandoned salt works (worked principally during the civil war)
- ○ Well
- ▲ Iron furnace (not in use)
- ⚒ Mine, pit, or quarry
- A Asphalt mine
- C Clay (used principally for brick)
- G Gravel (used for ballast and concrete)
- I Iron ore
- L Lignite
- S Sandstone (used for ballast and riprap work)
- B Bauxite
- Spring

Large rectangle in center of map represents area of Fig. 11 of this report

GEOLOGIC MAP OF PORTIONS OF LOUISIANA, TEXAS, AND ARKANSAS
INCLUDING THE CADDO OIL FIELD

Scale 1/1,000,000

10 5 0 10 20 30 40 Miles

Contour interval 100 feet

1909

Base compiled by A. C. Veatch from the maps of the U.S. Land Office, U.S. Engineers, Mississippi River Commission, Post-Office Department, and railway surveys, 1902-3

The contours are based on field observations and are controlled by railway profiles, the elevations given in Prof. Paper U.S. Geol. Survey No. 46, and, in a small portion of southern Arkansas and Oklahoma, on the work of the U.S. Geological Survey

Geologic data have been obtained from maps and reports of the following persons or organizations:

Gilbert D. Harris, C. W. Hayes, Robert T. Hill, Wm. Kennedy, J. A. Taff, A. C. Veatch, J. Francis Williams, Arkansas Geological Survey, Louisiana Geological Survey, Texas Geological Survey, Mississippi River Commission, and U.S. Geological Survey

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