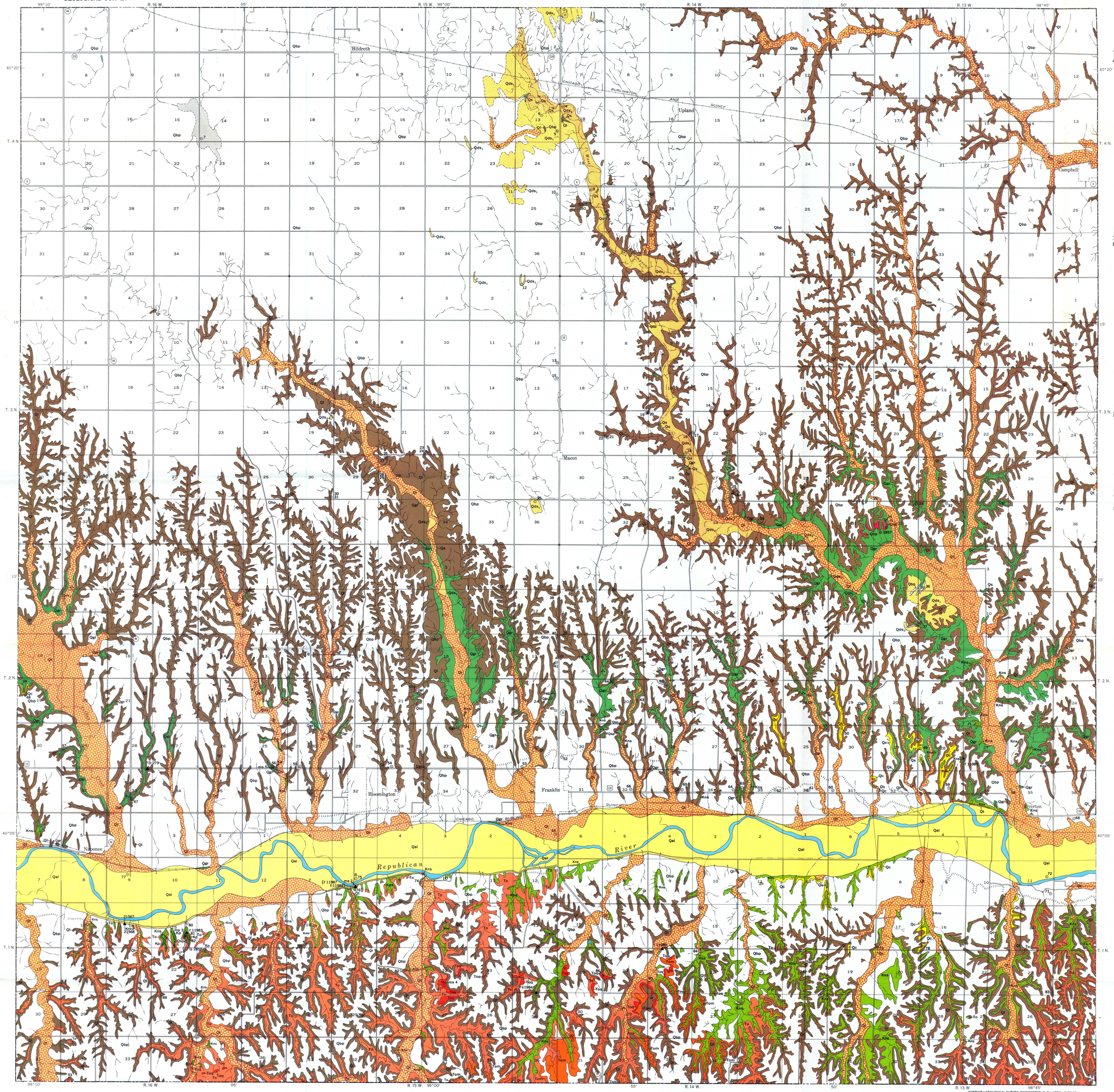
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1165
PLATE 1

GEOLOGIC MAP OF FRANKLIN COUNTY, NEBRASKA



EXPLANATION

Qal — Flood plain alluvium
Yellowish-gray to light-gray unconsolidated silty sand to fine quartz sand along modern channels and modern flood plains

Qdsy — Dune sand
Dark yellowish-brown to yellowish-gray fine sand

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Qt — Terrace deposit
Dark-brown to gray sandy to clayey silt of two terrace cycles

Qdso — Dune sand
Dark yellowish-brown to yellowish-gray fine sand on which is developed a weak soil

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Qbp — Bignell and Peorian Loesses
Yellowish-gray, yellowish-brown, or grayish-orange clayey silt. A dark humic soil separates the loesses in some places

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Ql — Loveland Loess
Moderate yellowish-brown to reddish-brown clayey silt, locally composed of silty sand or sand, dark yellowish-brown to grayish-brown humic soil. Soil of Sangamon age at top at most places

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Qc — Crete Formation
Light-brown silty sand and fine sand; pale yellow to grayish-orange chalky sandy silt locally south of the Republican River

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Qs / Qsc — Sappa Formation
Qs, gray to greenish-gray clay and silty clay, tan silt.
Qsc, Pearlette Ash Member, white to gray volcanic ash lenses and beds

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Qgr — Grand Island Formation and Red Cloud Sand and Gravel
Light-brown crossbedded fine to coarse sand; contain lenses of silt and pebbles; at places where the Sappa is absent may include some Crete Formation

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To / Tom / Toq — Ogallala Formation
To, grayish-yellow, dark greenish-yellow to moderate yellowish-brown coarse sand; grayish-orange, greenish-gray, or pale-olive sandy to clayey silt; and dusky yellowish-green to dark yellowish-orange clay.
Tom, mortar beds, very light gray to medium gray, calcium carbonate-cemented, silty sandstone.
Toq, grayish-green opaline silica-cemented arkosic quartzite

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Kp — Pierre Shale
Black to brownish-gray noncalcareous clayey shale

Kns — Smoky Hill Chalk Member of the Niobrara Formation
Light bluish-gray, light olive-gray, dark yellowish-orange, very pale orange, to light-gray calcareous chalk and chalky shale

Beyond | Pleistocene | Wisconsin Glaciation | Illinoian Glaciation | Kansan Glaciation and Yarmouth Interglaciation | Kansan Glaciation | Pliocene | Upper Cretaceous | QUATERNARY | TERTIARY | CRETACEOUS

Contact
Dashed where approximately located; short dashed where inferred

Boundary of ancient terrace covered by Peorian and Bignell Loesses
Loess-covered terrace is on the riverward side of the boundary

Fault
Short dashed where inferred; dotted where concealed. U, upthrown side; D, downthrown side

Sand pit

Quarry

ms 5 — Measured section locality

31 — Materials sample locality reported in open file (Miller and others, 1964)

G 2858 — Volcanic ash sample locality

D 279, 21567, f 11983 — Fossil locality
D 279, U.S. Geological Survey fossil vertebrate ("red" catalogue) locality number.
21567, U.S. Geological Survey Cenozoic invertebrate locality number.
f 11983, U.S. Geological Survey fossil locality number (assigned by the National Museum)

Undrained depression
Periodically contains water. Humic clayey silt and humic clay covers bottom of depression

Base map compiled from Soil Conservation Service aerial photographs

APPROXIMATE MEAN DECLINATION, 1964

SCALE 1:48000

1 0 1 2 3 MILES
1 0 1 2 3 KILOMETERS

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Geology by R. Van Horn, 1949–50