UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PROFESSIONAL PAPER 472
PLATE 3

GEOLOGIC MAP OF THE OMAHA-COUNCIL BLUFFS AREA, NEBRASKA-IOWA; OMAHA SOUTH AND COUNCIL BLUFFS SOUTH QUADRANGLES

Geology mapped by R. D. Miller, 1951–53, 1956

Base from U.S. Geological Survey topographic quadrangles:
Omaha South, Nebraska-Iowa, 1956, and Council Bluffs
South, Iowa-Nebraska, 1956 quadrangles

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EXPLANATION

- Qal — Flood-plain alluvium
- Qaf — Alluvial-fan deposits
- Qsw — Slope wash
- Qa — Artificial fill
- Qt1 — Terrace alluvium

Recent

- Qbp — Bignell and Peorian Loesses
- Qt1 — Terrace alluvium
- Ql — Loveland Loess
- Qs — Sappa Formation
- Qgi — Grand Island Formation
- Qk — Kansan till
- Qf / Qfs — Fullerton Formation (Qfs, silt; Qfs, sand)
- Pl — Lansing Group
- Pkc — Kansas City Group

Pleistocene: Wisconsin Glaciation; Illinoian Glaciation; Yarmouth Interglaciation; Kansan Glaciation; Nebraskan Glaciation

Missouri

QUATERNARY

PENNSYLVANIAN

CARBONIFEROUS

Areas where sand is at or within 2 feet of surface

Areas where clay or silt is at or within 2 feet of surface

Contact
Dashed where approximately located; short dashed where inferred or indefinitely located

Scarp bordering old channels
Hachures point downslope

Borrow pit

Extent of silt deposits in old channel of Papillion Creek north of Rumney, Nebraska

Measured section location and number

Auger hole location and abbreviated columnar section

Stratigraphic sequence and approximate thickness, in feet, of material, based on logs of auger holes and material returns from hole

- s — black
- gn — greenish blue
- cl — clay
- sicl — silty clay
- si — silt
- hu — humic silt
- fg — fine gravel
- sis — silty sand
- s — sand
- fs — fine sand
- ms — medium sand
- mcs — medium-coarse sand
- cs — coarse sand
- g — gravel
- t — till
- ls — limestone
- sh — shale
- tn — tan

QUADRANGLE LOCATION

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL