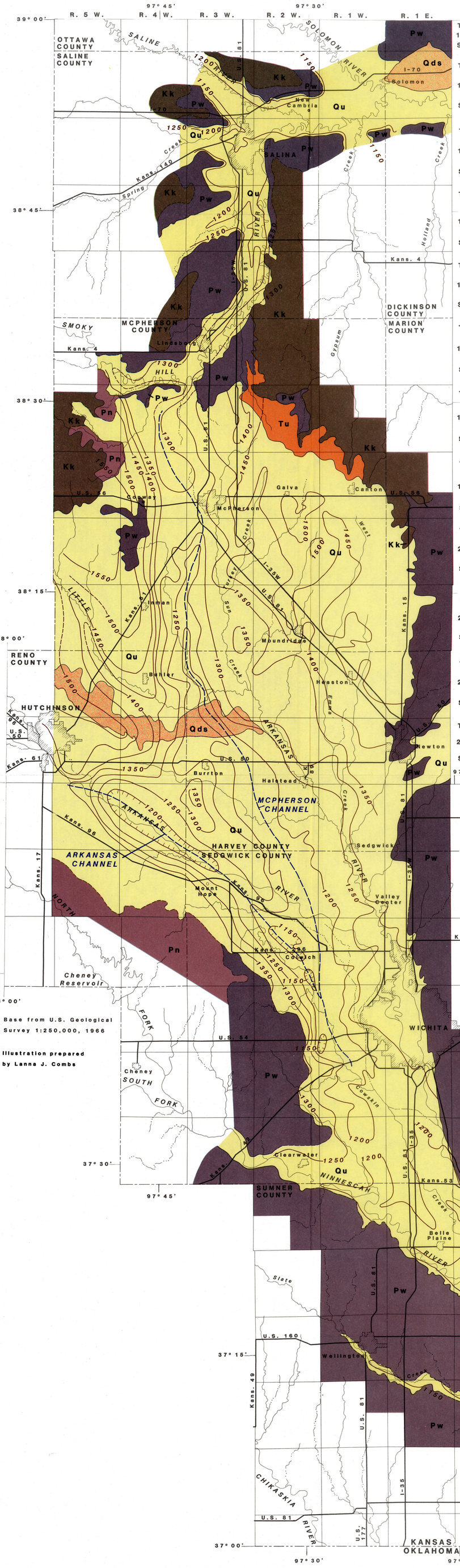
MAPS SHOWING SURFICIAL GEOLOGY AND HYDROLOGY OF FRESHWATER DEPOSITS, CENTRAL KANSAS, APRIL 1977



Base from U.S. Geological Survey 1:250,000, 1966

Illustration prepared by Lanna J. Combs

Geology and bedrock contours modified from Latta (1949), Williams and Lohman (1949), Bayne (1956), Walters (1961), Lane and Miller (1965), and Leonard and Kleinschmidt (1976)

EXPLANATION

QUATERNARY

- **Qu** — Undifferentiated Pleistocene deposits
- **Qds** — Dune sand

TERTIARY

- **Tu** — Undifferentiated Pliocene deposits

CRETACEOUS

- **Kk** — Kiowa Formation

PERMIAN

Sumner Group

- **Pn** — Ninnescah Shale
- **Pw** — Wellington Formation

Chase Group

- **Pc** — Chase Group

1200 — Line of equal altitude of buried bedrock surface. Dashed where approximately located. Contour interval 50 feet. Datum is mean sea level

1150 — Depression contour on buried bedrock surface

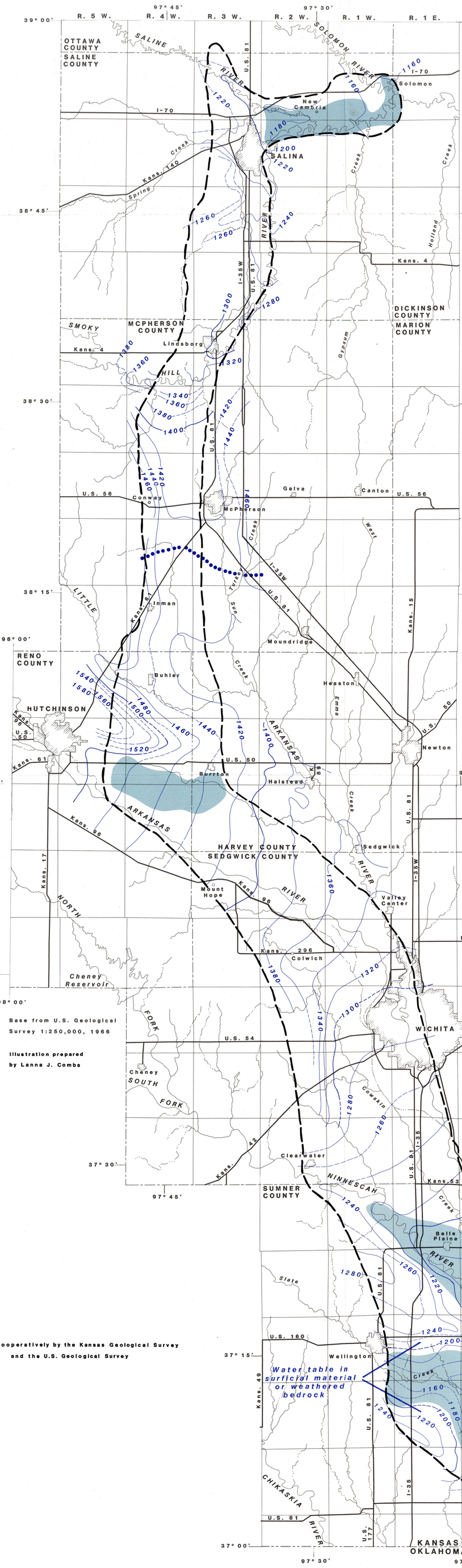
Geologic contact. Dashed where inferred

Buried channel of Pleistocene age

Scale 1: 250 000

0 5 10 MILES

0 5 10 KILOMETERS



Prepared cooperatively by the Kansas Geological Survey and the U.S. Geological Survey

Hydrology by Tony Gogel, 1979

EXPLANATION

1320 — Water-table contour. Shows altitude of water table, April 1977. Dashed where approximately located. Contour interval 20 feet. Datum is mean sea level

Ground-water divide

Area where potentiometric surface of Wellington aquifer is higher in altitude than water table of freshwater deposits

Approximate boundary of Wellington aquifer

Scale 1: 250 000

0 5 10 MILES

0 5 10 KILOMETERS