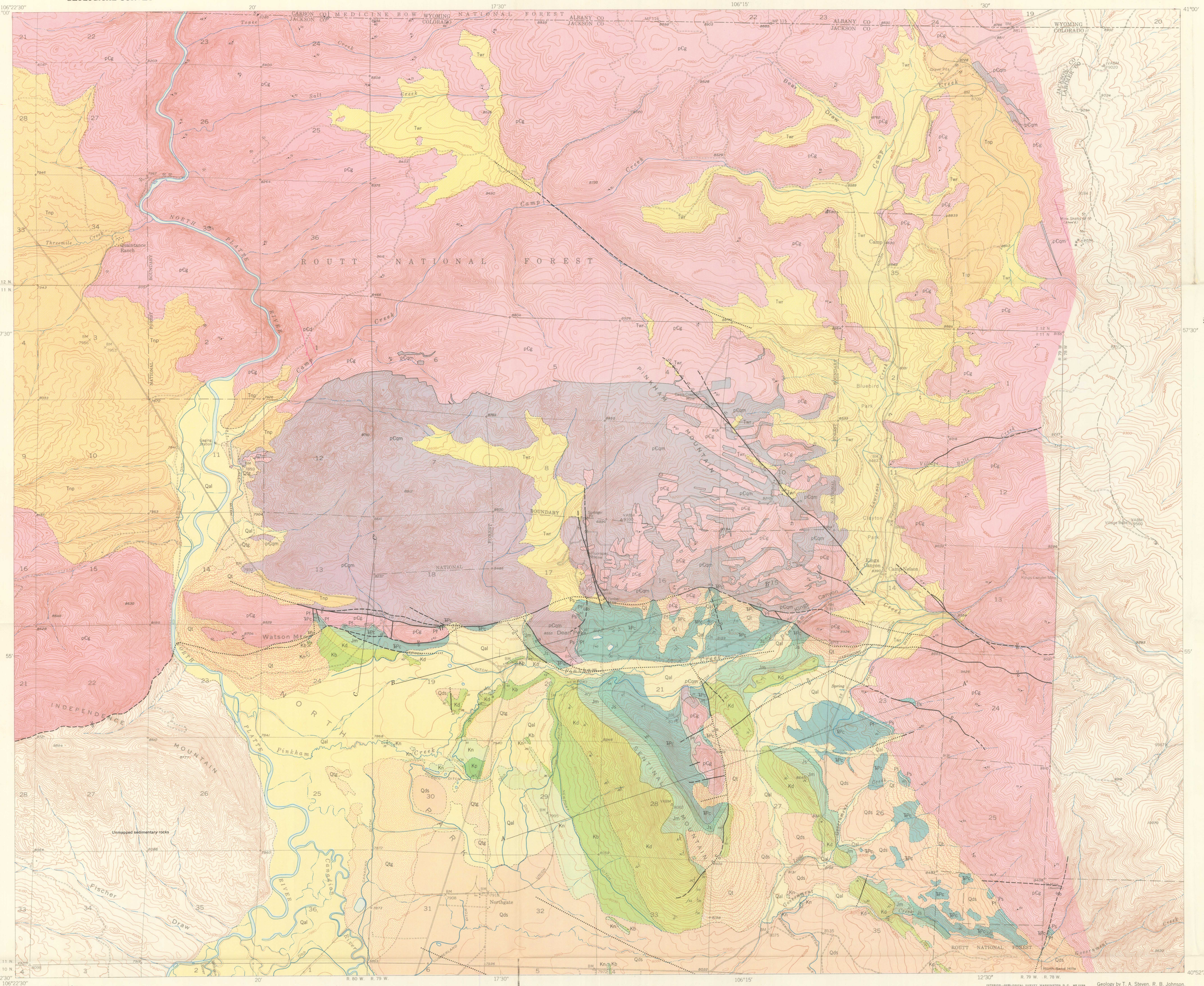


Base by U. S. Geological Survey

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. MR 2299

Geology by T. A. Steven, R. B. Johnson, A. L. Bush, and G. W. Weir, 1946-48

EXPLANATION

QUATERNARY

- Qal — Alluvium
- Qt — Talus, landslide, and alluvial fan deposits
- Qds — Dune sand, mostly stable
- Qtg — Terrace gravels

UNCONFORMITY

TERTIARY

Miocene and Pliocene(?)

- Tnp — North Park formation

UNCONFORMITY

Oligocene

- Twr — White River formation

UNCONFORMITY

CRETACEOUS

Upper Cretaceous

- Kp — Pierre shale
- Kn — Niobrara formation
- Kb — Benton shale

Lower Cretaceous

- Kd — Dakota group as used by Lee (1927)

Ku — Pierre, Niobrara, Benton formations undifferentiated *Shown in sections only*

UNCONFORMITY

JURASSIC

Upper Jurassic

- Jm — Morrison formation
- Js — Sundance formation

UNCONFORMITY

PERMIAN AND TRIASSIC

- TRPc — Chugwater formation

PERMIAN

- Pf — Forelle(?) limestone
- Ps — Satanka(?) shale

UNCONFORMITY

PRECAMBRIAN

Younger Precambrian

- pCqm — Intrusive quartz monzonite
- pCd — Dacite porphyry dikes

Older Precambrian

- pCg — Gneiss complex

pCu — Undifferentiated rocks *Shown in sections only*

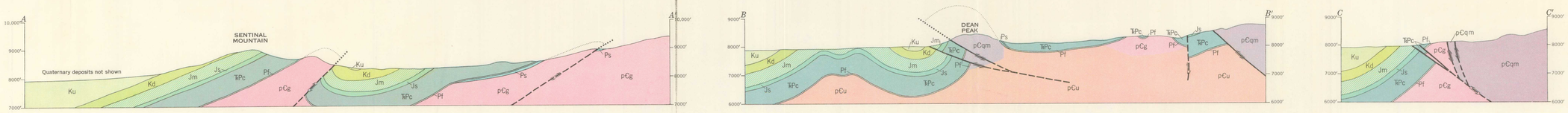
Contact
Dashed where approximately located

Fault, showing dip
Dashed where approximately located; dotted where concealed. U, upthrown side, D, downthrown side

Strike and dip of beds

Strike and dip of foliation

APPROXIMATE MEAN DECLINATION, 1960



GEOLOGIC MAP AND SECTIONS OF THE NORTHGATE DISTRICT, COLORADO

Scale 1:24 000

0 1 2 MILES

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL