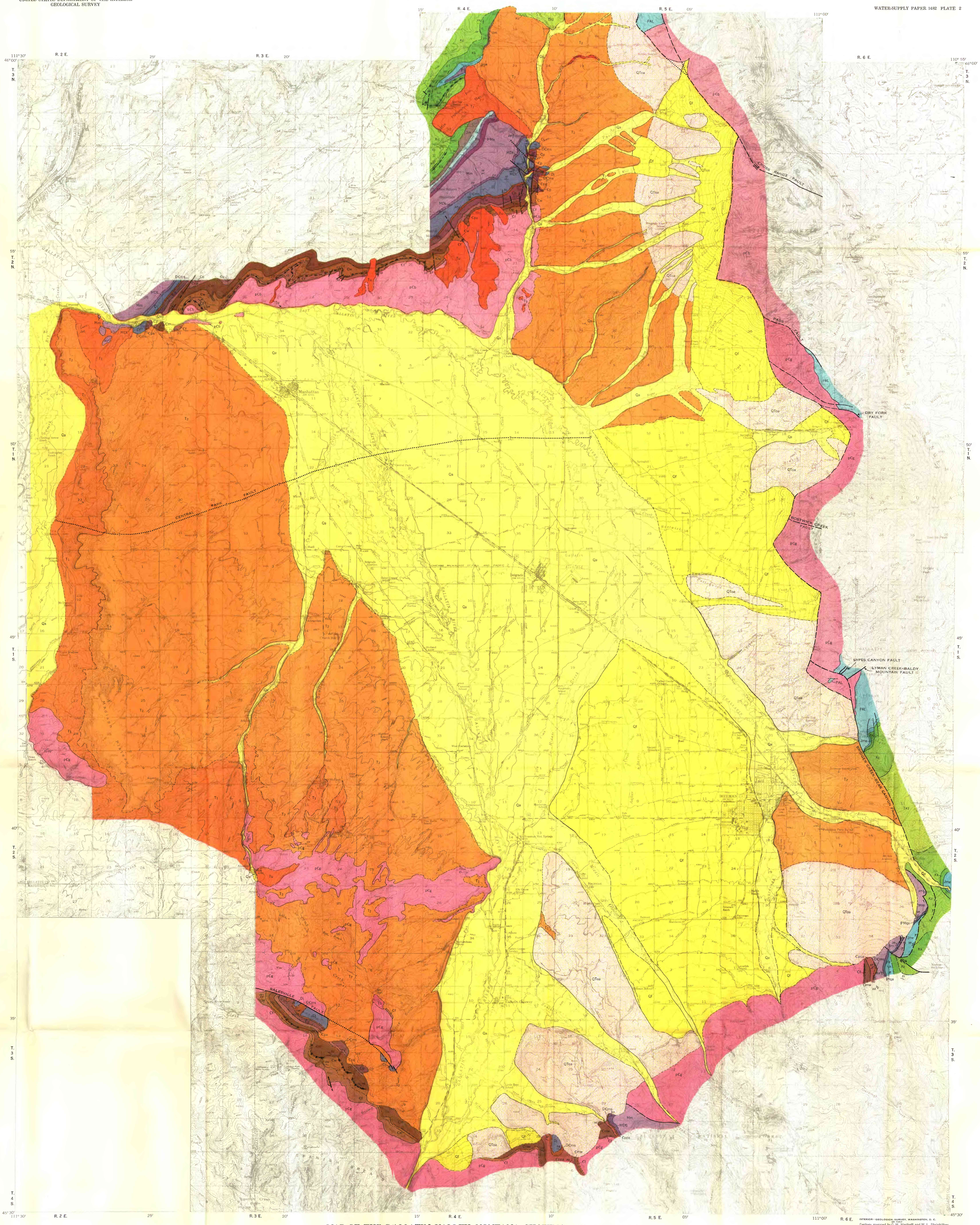

EXPLANATION

SEDIMENTARY ROCKS

QUATERNARY

- **Qa** — Alluvium. *Predominantly stream-laid deposits*
- **Qf** — Alluvium. *Predominantly alluvial-fan deposits*

TERTIARY

- **QTo** — Old alluvium. *Stream-laid and fan deposits*
- **T2** — Unit 2. *Predominantly fluviatile deposits*
- **T1** — Unit 1. *Predominantly lacustrine deposits*
- **Tu** — Tertiary strata, undifferentiated

CRETACEOUS

- **TKl** — Livingston formation
- **Kc** — Colorado shale
- **Kk** — Kootenai formation

JURASSIC

- **Jm** — Morrison formation
- **Je** — Ellis group
- **Jme** — Morrison formation and Ellis group, undifferentiated

CARBONIFEROUS

PENNSYLVANIAN

- **PIMq** — Quadrant quartzite
- **PIMa** — Amsden formation
- **PIMqa** — Quadrant quartzite and Amsden formation, undifferentiated

MISSISSIPPIAN

- **Mm** — Madison group

DEVONIAN

- **MDf** — Three Forks shale
- **Dj** — Jefferson limestone
- **MDfj** — Three Forks shale and Jefferson limestone, undifferentiated
- **DCms** — Maywood and Snowy Range formations, undifferentiated

CAMBRIAN

- **Cp** — Pilgrim limestone
- **Cpa** — Park shale
- **Cppa** — Pilgrim limestone and Park shale, undifferentiated
- **Cmr** — Meagher limestone
- **Cw** — Wolsey shale
- **Cmw** — Meagher limestone and Wolsey shale, undifferentiated
- **Cf** — Flathead quartzite

PRECAMBRIAN

- **pCb** — Belt series, undifferentiated
- **pCg** — Gneissic rocks

PALEOZOIC

- **PAL** — Paleozoic rocks, undifferentiated

IGNEOUS ROCKS

TERTIARY(?)

- **Tb** — Basalt
- Sill

Formational contact
Dashed where approximate; short dashed where gradational, indefinite, or inferred

Fault
Dashed where approximate; dotted where concealed

Probable fault

Fault, showing relative movement

Thrust or low angle reverse fault
T, upper plate

25
Strike and dip of beds

35
Strike and dip of overturned beds

90
Strike of vertical beds

17½°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1959

MAP OF THE GALLATIN VALLEY, MONTANA, SHOWING AREAL GEOLOGY

Scale 1:63,360

1 0 1 2 3 4 5 Miles

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
Geology mapped by D. M. Hackett and W. L. Steinhilber.
Bedrock geology along west flank of Bridger Range, after W. J. McMannis, 1954