

EXPLANATION

QUATERNARY

Recent

- Qal Alluvium
- Qs Landslide materials
- Qt Terrace gravels and surfaces (gravel, sand, and silt)

Pleistocene

- Tmc Mint Canyon formation (Tmc, undifferentiated nonmarine silts, sands, conglomerates, and minor tuffs; Tmcbs, basal conglomerate, clasts principally of Pelona schist)

Miocene

- Tic Tick Canyon formation (chiefly silts, sands, and conglomerates, nonmarine)

Late Lower

- Tv Vasquez series (Tv, undifferentiated nonmarine sediments, chiefly conglomerates, breccias, and arkoses; Tvbr, breccias, clasts composed of leucogranite or mafic granite, gneiss; Tv, andesite and basalt flows and shallow intrusives; L, light-colored matrix conglomerates; D, dark-colored matrix conglomerates)

UNCONFORMITY

PRE-CRETACEOUS

Paleocene

- Tmz Martinez formation (marine sandstones, siltstones, and conglomerates)

UNCONFORMITY

- gr Granitic intrusives (quartz diorite to quartz monzonite and syenite, leucocratic)
- gn Gneissic complex (hornblende-feldspar-mica gneisses)
- psq Pelona schist (ps, undifferentiated schists, chiefly muscovite, chlorite-muscovite, and actinolite-chlorite; psq, quartzite; ps, interbedded limestone and quartzite)

CONTACTS

- Accurate
- Approximate
- Buried
- Uncertain

FAULTS

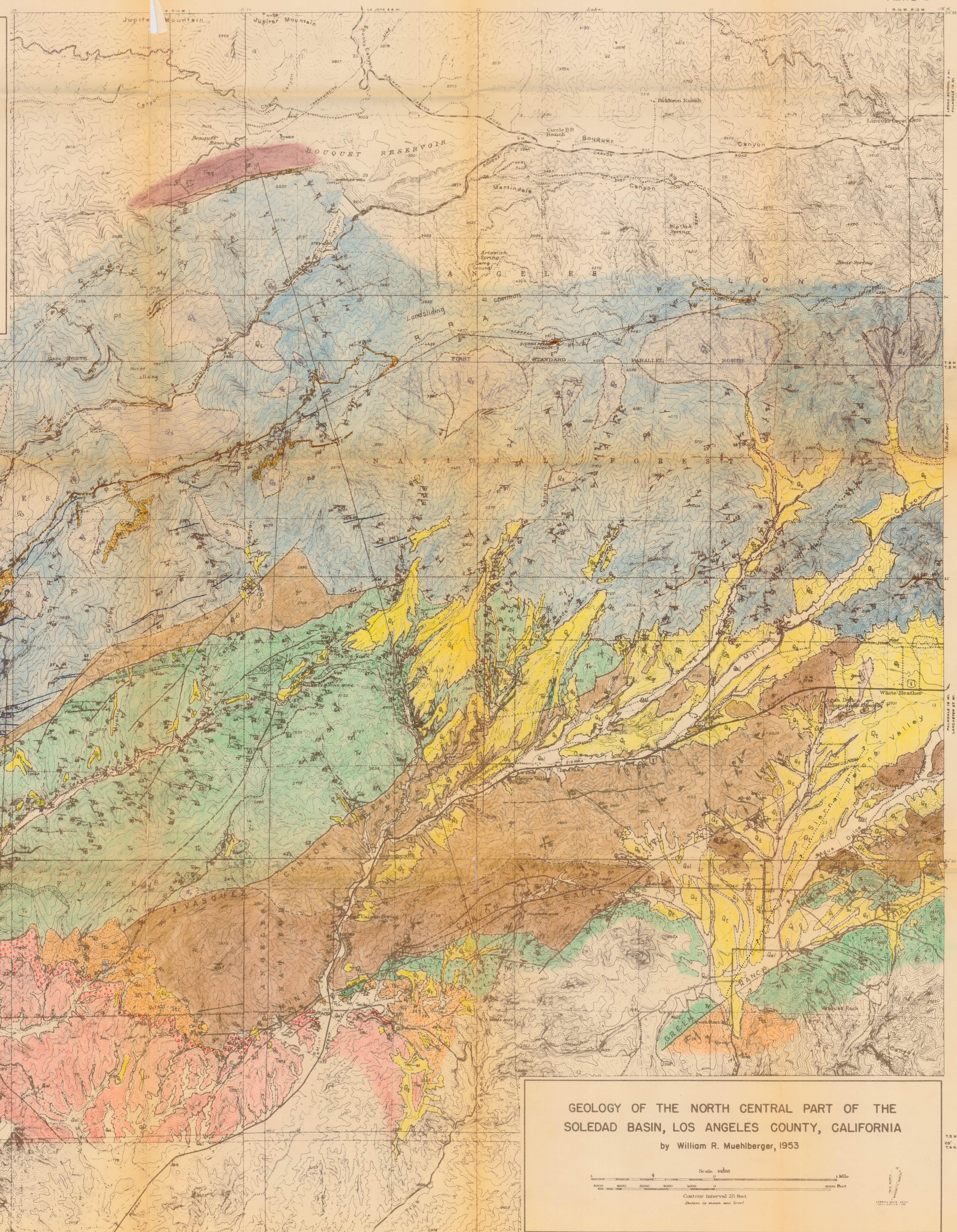
- Fault, showing dip; arrow indicates plunge of slickensides
- Normal
- Overturned
- Vertical

STRIKE AND DIP OF BEDS

- Strike and dip of joints, r indicates rift direction where observable
- Strike and dip of foliation, showing trend and plunge of lineation (lineation usually is formed by wrinkling of foliation; m indicates where lineation is formed by alignment of minerals)
- Direction of plunge of minor folds, barb indicates dip of axial plane
- Location of structure sections
- Axis of anticline, showing direction of plunge
- Axis of syncline, showing direction of plunge

U.S. Geol. Surv. topographic quadrangle index map

Geologic mapping 1952-53



GEOLOGY OF THE NORTH CENTRAL PART OF THE SOLEDAD BASIN, LOS ANGELES COUNTY, CALIFORNIA
by William R. Muehlberger, 1953

