

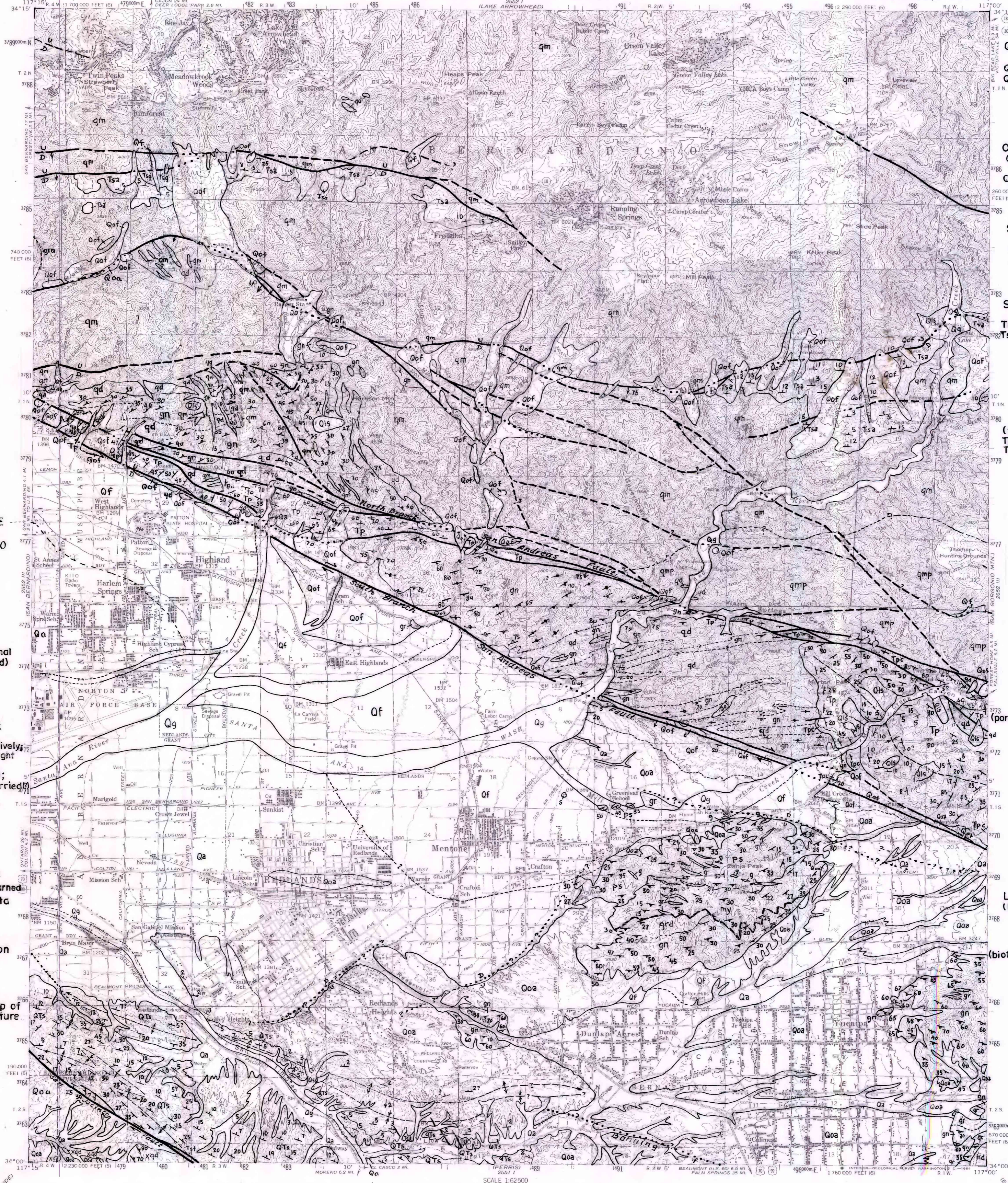
U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

74-1022

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
EDMUND G. BROWN GOVERNOR
HARVEY O. BANKS, DIRECTOR OF WATER RESOURCES

REDLANDS QUADRANGLE
CALIFORNIA
15 MINUTE SERIES (TOPOGRAPHIC)



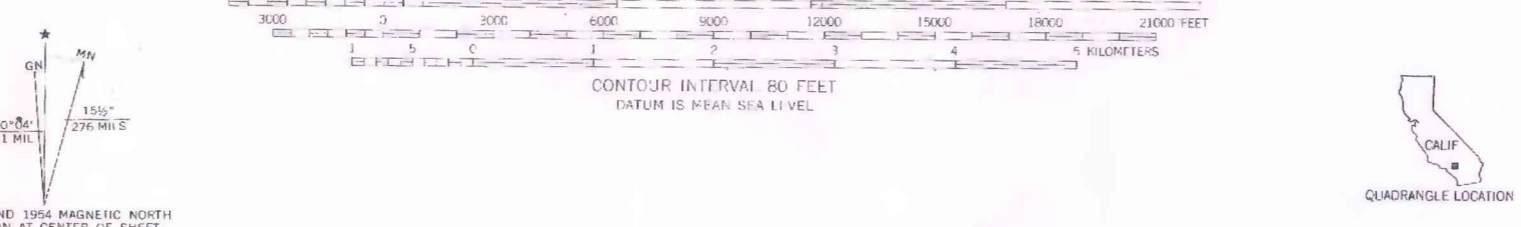
MARRISON MOUNTAIN 1953	KELLER PEAK 1953
REDLANDS 1954	YUCAIPA 1954

INDEX TO 7 1/2 MINUTE QUADRANGLE BASE MAPS, SCALE 1:24000

- Contact (Dashed where gradational or approximately located)
- Fault (Dashed where inferred; dotted where concealed; U, upthrown block; D, downthrown block, relatively; parallel arrows indicate right lateral slip; single arrow indicates direction of dip; fault doubtful where queried)
- Anticline Syncline (Axis of fold showing direction of plunge)
- Inclined Vertical Overturned (Strike and dip of strata)
- Inclined Vertical (Strike and dip of foliation or gneissoid structure)
- Inclined Vertical (Approximate strike and dip of undulating gneissoid structure)

- Qg, Qa (Surficial sediments, gravel and sand of stream channels)
- Qf (Alluvial fan gravel)
- Qc (Alluvium, sand & gravel)
- Qls (Landslide rubble)
- Qoa, Qof (Older surficial sediments, gravel, sand and clay)
- Qof (Dissected fan gravel)
- UNCONFORMITY
- QTS (San Timoteo Formation of Frazier, 1921 (terrestrial sandstone, conglomerate and clay))
- Tsg, Tsa (Santa Ana Sandstone (terrestrial))
- Tsa (Sandstone and conglom. conglomerate of granitic detritus)
- UNCONFORMITY
- Tp, Tpc (Potato Sandstone (terrestrial and lacustrine))
- Tpc (Sandst, minor clay shale, conglomerate)
- UNCONFORMITY
- g (Granitic rock (porphyritic fine grained quartz monzonite))
- qm (Granitic rock (quartz monzonite))
- gr (Granitic rock (granite to quartz monzonite))
- gra (Granitic rock (quartz monzonite to quartz diorite))
- qmp (Granitic rock (porphyritic quartz monzonite))
- qd, xqd (Dioritic rock)
- qd (Biotite-rich quartz diorite)
- xqd (Anisissoid, xenolith-bearing quartz diorite (S// corner of map))
- hd (Gabbroic rock (hornblende-biotite diorite-gabbro))
- gnd (Low (?) granodiorite (Permian or Triassic?))
- gn (Gneiss (biotite-quartz-feldspar gneiss))
- FAULT CONTACT
- my (Mylonite)
- ps (Pelona Schist)

Holocene
QUATERNARY
Pleistocene
QUATERNARY
Pliocene or TERTIARY OR QUATERNARY
Pliocene?
TERTIARY
Miocene or Pliocene?
MESOZOIC OR TERTIARY
MESOZOIC
PRECAMB ? PALEO. OR MFSO.
MESOZOIC OR OLDER



MAPPED BY T.W. DIBBLEE JR., 1968
Drafted by G.J. Edmiston, 1971
GEOLOGIC MAP OF THE REDLANDS QUADRANGLE, CALIFORNIA

Reference; Frazier, D.M., 1931, Cal. Div. Mines, Mining in California, v. 27, n. 4, p. 494-450, p. 1

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey standards and nomenclature.