SANTIAGO CREEK

73-57

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN FILE MAP

SW OF SAN ANDREAS FAULT

- Qa — Alluvium
- Qls — Landslide debris
- UNCONFORMITY
- QTp — Paso Robles Formation (terrestrial gravel, sand)
- UNCONFORMITY
- Tc — Caliente Formation (terrestrial red and green sand and clay)
- UNCONFORMITY
- Tvl — Soda Lake Shale Member of Vaqueros Formation (marine siltst, minor sandstone)
- Tsf / Tsc / Tsi — Simmler Formation (terrestrial strata)
  - Tsf, fan gravel (red, gray & green)
  - Tsc, conglom. & sandst (pink & gray)
  - Tsi, sandst. and clay, minor conglomerate (pink, gray and tan)
- Tpa — Pattiway Formation of Dibblee, (1961) (brackish-marine? buff sandstone and gray siltstone)

NE OF SAN ANDREAS FAULT

- Qg / Qa — Surficial deposits Qg, gravel and sand of stream channels Qa, alluvium
- Qls — Landslide debris
- Qoa — Older alluvium
- Qog — Fan gravel (equiv. to part of Tulare Form. of Eagle Rest Peak quadrangle)
- UNCONFORMITY
- Tuc / Tun — Terrestrial sediments Tuc, clay, minor sand Tun, sand, minor clay and gravel
- Te — Etchegoin Formation (marine sand)
- UNCONFORMITY
- Tbw — Bitterwater Creek Shale (marine siliceous mudstone)
- UNCONFORMITY
- * Tmg / Tm — Monterey Shale (marine siliceous shale) Tmg, Gould Shale Member Tm, black shale
- * Tt / Tts — Temblor Formation marine sandst., siltst. & clay shale Tt, mostly siltst. and clay shale Tts, mostly sandstone, locally pebbly
- Tvd — Dacite to andesite
- LOCAL UNCONFORMITY
- * Tpl / Tps — Pleito Formation marine sandst., siltst. & clay shale Tpl, mostly siltst. and clay shale Tps, mostly sandstone
- * Tse — San Emigdio Form. marine siltst., clay shale, some fine grained massive sandstone
- LOCAL UNCONFORMITY
- † Ttl / Ttu — Tejon Formation (marine shale and sandstone) Ttl, Liveoak Shale Member (few thin sandst. strata) Ttu, Uvas Conglom. Member (basal sandst. & congl.)
- UNCONFORMITY
- qm / qd — Granitic rocks qm, quartz monzonite qd, quartz diorite
- ‡ hd — Hornblende diorite
- ‡ hqg — Hornblende-quartz diorite gabbro
- ‡ gb — Hornblende-pyroxene gabbro
- ‡ hgb — Fine grained metadiabase and amphibolite, some gabbro and pyroxenite
- mi / ms — Metamorphic rocks ms, schist and gneiss mi, marble

Quaternary: Holocene; Pleistocene
Tertiary: Pliocene; Miocene; Oligocene; Eocene
Mesozoic; Mesozoic or older

Contact
dashed where gradational or approximately located

Fault
dashed where inferred
dotted where concealed
U – upthrown side
D – downthrown side, relatively
↓ indicates observed dip of fault plane
⇄ indicates relative horizontal movement

anticline — syncline
Axis of fold (showing position at surface and direction of plunge)

⊕ horizontal
↙30 inclined — direction of dip
× vertical
70 overturned
Strike and dip of bedding (in degrees from horizontal)
60 Strike and dip of foliation
Downslope direction of movement of landslide debris
Ⓜ mollusks Ⓕ foraminifera
Fossil locality
✧ Abandoned test hole drilled for oil or gas; (with total depth in feet)
Sandstone bed

INDEX TO SOURCE OF GEOLOGY
1. Dibblee, 1961, modified
2. Dibblee, T.W. Jr., fieldwork, 1971
3. Dibblee, T.W. Jr., & Nilsen, T.H., fieldwork, 1971–72
4. Dibblee, T.W., 1972, and data from Van Amringe, 1957
5. Data from Hammond, 1958
6. Data from Ross, 1970

References:
Dibblee, T.W. Jr., 1961 Geologic map San Emigdio Mtns., 1961. AAPG-SEPM-SJGS Guidebook.
Ross, D.C., 1970, Quartz-gabbro and anorthositic gabbros along San Andreas Fault, Calif. Coast Ranges GSA Bull. v.81, p. 3047-62
Van Amringe, J.H., Geology of a part of western San Emigdio Mtns, UCLA MA thesis, 1957
Hammond, P.E., Geology of lower Santiago Creek area, San Emigdio Mtns., UCLA MA thesis, 1958
Nilsen, T.H., Dibblee, T.W. Jr., Addicott, W.O., 1973, Lower and middle stratigraphic units of the San Emigdio and western Tehachapi Mtns., Calif.: USGS Bull. 1372-H
Nilsen, T.H., 1973, Facies relations in the Eocene Tejon Formation of the San Emigdio and western Tehachapi Mtns., Calif., in Sedimentary facies changes in Tertiary rocks–Calif. Transverse and southern Coast Ranges: 1973 AAPG-SEPM-SEG guidebook, field trip 2, p.7-23

* See Nilsen et al, 1973, for description and age of this unit

† See Nilsen, 1973, for description and age of this unit

‡ See Ross, 1970, for description of this unit

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Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1942. Field check 1943

Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 5
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Dashed land lines indicate approximate locations

SCALE 1:24000
1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER
CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1943

QUADRANGLE LOCATION

SANTIAGO CREEK, CALIF.
N3452.5—W11915/7.5.
1943

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

GEOLOGIC MAP OF THE SANTIAGO CREEK QUADRANGLE, CALIFORNIA

COMPILED BY T.W. DIBBLEE JR., 1973

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

5-July 1973 TWD