OPEN FILE MAP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

SAN MIGUEL QUADRANGLE
CALIFORNIA
15 MINUTE SERIES (TOPOGRAPHIC)

## SW OF SAN ANDREAS F.

**Holocene**

- **Qr** — River sand
- **Qa** — Alluvium
- **Qls** — Landslide rubble

**Pleistocene**

- **Qoa** — Older alluvium

UNCONFORMITY

- **QTc / QTm / QTp / QTpc / QTg** — Paso Robles Formation (valley sediments)
  QTc, clay; QTm, marl
  QTp, gravel, sand, clay
  QTpc, clay, minor grav.
  QTg, cobble conglom.

**Pliocene**

- **Tuc / Tus / Tug** — Unnamed strata
  Tuc, terrest. conglom.
  Tus, marl. sandstone
  Tug, ter. gravel, cgl.
- **Tpo** — Pancho Rico? diat. mudstone
- **Tsg** — Unnamed cgl. and ss.

**Miocene**

- **Tsm** — Santa Margarita Ss.
- **Tmc / Tm** — Monterey Shale
  Tmc, mudstone
  Tm, silic. shale
- **Tmf** — Fossilif. siltstone
- **Tms** — Upper Miocene marine sandstone
- **Tnc** — Nonmarine conglom.
- **Tn** — Unnamed non marine gray to red ss. & cgl.

**Oligocene?**

- **Tvr** — Volcanic rocks rhyolitic rock and obsid.

UNCONFORMITY

**MESOZOIC MESOZ. ON PALEO?**

- **grb** — Granitic breccia
- **gr** — Granitic rock (granodior?)
- **m** — Marble

QUATERNARY · TERTIARY

## NE OF SAN ANDREAS F.

**Holocene**

- **Qa** — Alluvium
- **Qls** — Landslide rubble

**Pleistocene**

- **QTy / QTv** — Varian Fm. (ter.)
  QTy, clay
  QTv, arkosic sand and gravel

**Miocene Pliocene**

- **Te** — Etchegoin Form. (marine sandst.)
- **Tm** — Monterey Shale
  McLure Shale Mbr. (silic. shale)

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**Upper**

- **Kp** — Panoche Fm. (sandst. & shale)

**Lower**

- **Kgf** — Gravelly Flat Fm. (of Rose & Colburn 1963) (shale)

**JURASSIC OR CRETACEOUS**

- **f / fg / fc** — Franciscan Rocks
  f, undiff. mostly shale and graywacke
  fg, greenstone
  fc, chert

QUATERNARY · TERTIARY · CRETACEOUS

Contact
Dashed where gradational or approximately located

U / D
Fault
Dashed where doubtful
Dotted where concealed
U, Upthrown side
D, Downthrown side
Arrows indicate horizontal movement

Anticline — Syncline
Axis of fold showing direction of plunge

Horizontal

30 Inclined

Vertical

70 Overturned
Strike and dip of strata

Abandoned well drilled for oil or gas

Mapped by the Army Map Service
Published for civil use by the Geological Survey

Control by USC&GS, USGS, and USCE

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1947

Polyconic projection. 1927 North American datum
10,000-foot grids based on California coordinate system, zones 4 and 5

Red tint indicates area in which only landmark buildings are shown

Dashed land lines indicate approximate locations

No distinction is made between barns, dwellings, commercial and industrial buildings

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1947

SCALE 1:62500

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

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

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route

This area is also covered by 1:24 000-scale maps of Valleton, Stockdale Mountain, Bradley Canyon, and San Miguel 7.5 minute quadrangles surveyed 1948

SAN MIGUEL, CALIF.
N3545—W12030/15
1947

Drafted by Gertrude J. Edmonston, 1971

Geology by T.W. Dibblee Jr. 1952, 1967, 1968
NW part modified after D.L. Durham 1966

References:

Durham, D.L., 1966, Geology of the Hames Valley, Wunpost, and Valleton quadrangles, Monterey County, Cal. U.S.G.S. Bull. 1221-B

# GEOLOGIC MAP OF THE SAN MIGUEL QUADRANGLE, CALIFORNIA