SAN LUIS OBISPO QUADRANGLE
CALIFORNIA-SAN LUIS OBISPO CO.
15 MINUTE SERIES (TOPOGRAPHIC)

Contact
dashed where gradational
or approximately located

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

Direction of downward
movement of landslides

INDEX TO SOURCES OF GEOLOGY
1, Fairbanks, 1904*
2, Page, 1972*
3, Hart, unpublished*
4, T.W. Dibblee, field work, 1967, 1972.
* modified by T.W.D. from field work, 1972.

References:
Fairbanks, H.W., 1904, Description of the San Luis Quadrangle: U.S. Geol. Surv. Geol. Atlas, Folio 101. Page, B.M., 1972, Oceanic crust and mantle fragment in subduction complex near San Luis Obispo, Calif.: Geol. Soc. Amer. Bull. v. 83, p. 957–972.
Hart, E.M. unpublished mapping, Calif. Div. Mines and Geol.

INDEX TO 7½ MINUTE QUADRANGLE BASE MAPS
SCALE- 1:24000
ATASCADERO | SANTA MARGARITA | SAN LUIS OBISPO | LOPEZ MOUNTAIN

Scale 1:62500
0 2 3 4 MILES
3000 0 3000 6000 9000 12000 15000 18000 21000 FEET
1 0 1 2 3 4 5 KILOMETERS
CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION
Heavy duty — 4 LANE – 2 LANE — Light duty
Medium duty — 4 LANE – 2 LANE — Unimproved dirt
U.S. Route — State Route

SAN LUIS OBISPO, CALIF.
N3515—W12030/15
1952

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1954

QUATERNARY

Holocene

Qg
Qa
Surficial deposits
Qg, stream channel gravel and sand
Qa, alluvium

Qls | Qsp
Landslide deposits
Qls, landslide rubble
Qsp, serpentine landslide rubble

Qoa | Qop
Older surficial deposits
Qoa, older alluvium
Qop, dacite porph. debris

UNCONFORMITY

Plio. & Pleist.

QTp
Paso Robles Formation
(terrestrial gravel and sand)

UNCONFORMITY

TERTIARY

Miocene

Tsm
Santa Margarita Formation
(marine white sandstone, upper Miocene)

Tm | Tml
Tl | Tmc
Monterey Shale (marine)
Tm, upper part, siliceous shale (upper Miocene)
Tml, lower part, siliceous shale, soft silty shale, thin carbonate rocks (m. Miocene)
Tl, basal carbonate rock
Tmc, clay shale (m. & l. Miocene)

Tdb | Tb
Mafic volcanic rocks
Tdb, diabase (intrusive)
Tb, basalt (extrusive)

Tos | To | Tr
Obispo Tuff
(marine m. or l. Miocene)
Tos, white tuffaceous sandstone
To, tuff and tuff-breccia
Tr, rhyolitic rock

Oligocene or Miocene

Tv
Vaqueros? Sandstone
(marine, m.? & l. Mio.)

Td
Dacite porphyry
(intrusive)

Tsg
Conglomerate
(terrestrial; granitic debris near Salinas River; Franciscan & sandst. debris elsewhere)

UNCONFORMITY

Upper

Kss
Ksh
Kcg
Marine sedimentary rocks
Kss, sandstone, minor shale
Ksh, shale and sandstone
Kcg, pebble conglomerate

Lower

Kt
Toro Formation of Fairbanks
(marine shale, thin sandst. strata)

MESOZOIC

Jurassic or Cretaceous

ch
b
Unnamed formation
ch, brown chert
b., basaltic rocks

sp
Serpentinite

db
Diabase

fg | fs | fc | f
Franciscan rocks
fg, greenstone or basalt
fs, graywacke sandstone
fc, chert
f, pervasively sheared shale, graywacke and other rocks

gr
Granitic rocks
(granodiorite to quartz monzonite)

COMPILED BY THOS. W. DIBBLEE JR., 1974

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

GEOLOGIC MAP OF THE SAN LUIS OBISPO 15-MINUTE QUADRANGLE, CALIFORNIA