U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

Geology by T W Dibblee Jr
1966 - 68

SHANDON / ORCHARD PEAK

EXPLANATION

SURFICIAL DEPOSITS

Holocene

Qa — Alluvium

Qls — Landslide deposits

UNCONFORMITY

Pleistocene (?) and Holocene

Pleistocene

Qoa, Qoa3, Qoa2, Qoa1 — Older alluvium

Qoa3, youngest (lowest) terrace
Qoa2, intermediate (middle) terrace
Qoa1, oldest (highest) terrace

QUATERNARY

SOUTHWEST OF SAN ANDREAS FAULT — VALLEY DEPOSITS — NORTHEAST OF SAN ANDREAS FAULT

Pliocene (?) and Pleistocene

QTc, QTm, QTs, QTg — Paso Robles Formation

QTm, gravel of Monterey shale detritus
QTc, clay
QTs, sand and clay
QTg, gravel and sand

QTn — Paso Robles Formation
Gravel of shale and sandstone detritus

UNCONFORMITY

TERTIARY(?) AND QUATERNARY

UNCONFORMITY IN MOST PLACES

UPPER TERTIARY SEDIMENTARY SEQUENCE

Pliocene

Tmo — Morales Formation

Tq — Quatal Formation
UNCONFORMITY(?)

Tps, Tpb — *Pancho Rico(?) Formation
Tps, sandstone
Tpb, siltstone
UNCONFORMITY (?)

MIDDLE TERTIARY SEDIMENTARY SEQUENCE

Miocene

Tsm, Tsh — Santa Margarita Formation
Mainly sandstone
Tsh, shale

Tmu — Monterey Shale, undifferentiated

Tss — *Unnamed sandstone

Tc — Caliente Formation

Tm, Tmj, Tml, Tmd, Tmg — Monterey Shale
Tm, McLure Shale Member
Tmj, Jalama Sandstone Tongue of Marsh (1966)
Tml, unnamed siltstone unit
Tmd, Devilwater Shale Member
Tmg, Gould Shale Member

Oligocene

Tv — *Vaqueros Formation Sandstone

Tsi — *Simmler Formation

UNCONFORMITY

Tts, Ttc, Ttb, Ttm, Ttg, Ttr, Ttn — Temblor Formation
Tts, sandstone
Ttc, clay shale
Ttb, conglomerate
Ttb, Buttonbed Sandstone Member
Ttm, Media Shale Member
Ttr, Carneros Sandstone Member
Ttn, Santos Shale Member

LOWER TERTIARY MARINE SEDIMENTARY SEQUENCE

Oligocene

Tw — Wagonwheel Formation

Tkw — Welcome Shale Member of Kreyenhagen Shale

Eocene

Tpr — Point of Rocks Sandstone

Tkg — Gredal Shale Member of Kreyenhagen Shale

Ta — Avenal Sandstone

Paleocene and Eocene

Tl — Lodo Formation
UNCONFORMITY(?)

TERTIARY

CRETACEOUS AND JURASSIC (?) MARINE SEDIMENTARY SEQUENCE

Upper Eocene (?) Cretaceous (Campanian)

Kp, Kps — Panoche Formation
Kp, clay shale
Kps, sandstone and interbedded clay shale

Kh — Hex Claystone

CRETACEOUS

KJg — Gravelly Flat Formation
EUGEOSYNCLINAL

SEDIMENTARY AND IGNEOUS ROCKS

Jurassic and Cretaceous

sp — Serpentine

di — Diabase

Jurassic and Cretaceous (?)

fs, fg — Franciscan rocks of Bailey and others (1964)
fs, sedimentary rocks
fg, graywacke

MESOZOIC

CRYSTALLINE ROCKS

gr, m — Plutonic igneous and metamorphic rocks
gr, granitic rocks
m, marble

* Shown in cross-sections only

Contact
Shown dashed where gradational and/or approximately located

Fault
Shown dashed where indefinite or inferred; dotted where concealed, queried where existence is doubtful; single arrow on fault indicates dip of fault plane. U and D indicate relative vertical displacement, U-up, D-down; double arrows indicate relative lateral displacement. In cross-sections, A indicates movement away from observer; T, toward observer.

Anticline — Syncline
Surface position of axis of fold. End arrow indicates direction of plunge. Shown by widely spaced dots where concealed.

- Horizontal bedding
- Strike and dip of bedding
- Strike of vertical bedding
- Strike and dip of overturned bedding
- Strike and dip of foliation
- Strike of vertical foliation
- Direction of dip. Shown in areas of very low dips
- Abandoned test well drilled for oil and gas

GEOLOGIC MAP OF THE SHANDON AND ORCHARD PEAK QUADRANGLES
SAN LUIS OBISPO AND KERN COUNTIES, CALIFORNIA

By T.W. Dibblee, Jr. 1972

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