



Pleistocene  
Holocene  
Pliocene  
Upper Miocene and Lower Pliocene  
Middle Miocene  
Lower Miocene

WEST OF SAN GREGORIO FAULT

**EXPLANATION**

Qal; alluvium. Unconsolidated gravel, sand, and silt  
Qs; sand dunes

Qm  
Marine terrace deposit  
Sand and granular gravel, unconsolidated, moderate-yellowish-brown, fine-grained

UNCONFORMITY

Tps  
Tpm  
Purisima Formation  
Tps; lithic sandstone, thick-bedded to massive, olive-gray, pale-yellowish-brown to grayish-orange weathering, fine-grained, with small, irregular and large, elongate carbonate concretions; locally contains mollusc-rich lenses  
Tpm; mudstone, medium- to thick-bedded, light-olive-gray, light-brown weathering, nodular

UNCONFORMITY

Tsc  
Santa Cruz Mudstone of Clark (1966)  
Siliceous mudstone and sandy siltstone, thin- to thick-bedded and laminated, olive-gray to dusky-yellowish-brown, yellowish-gray weathering, blocky and nodular, distamaceous. Includes thin to thick, moderate-yellowish-brown weathering, carbonate copertationary interbeds

Tsm  
Santa Margarita Sandstone  
Arkosic sandstone, massive, light-olive-gray, grayish-orange to white weathering, medium- to fine-grained, locally calcareous and locally bituminous

UNCONFORMITY

Tm  
Monterey Formation  
Sandy siltstone and siliceous shale, thin- to medium-bedded, nodular weathering, medium-gray to olive-gray, pale-yellowish-brown to grayish-orange weathering. Includes few, very thick, grayish-orange weathering, medium-grained arkosic sandstone interbeds. Contains foraminifers of Relizian age

Tl  
Lompoc Sandstone of Clark (1966)  
Calcareous arkosic sandstone, thick to very thick-bedded, medium-gray, moderate-yellowish-brown to grayish-orange weathering, medium- to fine-grained

UNCONFORMITY

Tm  
Monterey Formation  
Siliceous mudstone, thin-bedded and thinly laminated, olive-gray to dusky-yellowish-brown (Relizian Stage). Includes near base of exposed section: phosphatic mudstone, dusky-yellowish-brown, and arkosic sandstone beds, medium- to fine-grained, glauconite-bearing. Contains foraminifers of Saucian and Relizian age

Tbs  
Basalt  
Basalt, fine-grained, microphyritic, altered. Age and stratigraphic position uncertain

EAST OF SAN GREGORIO FAULT

Tb  
Butano(?) Sandstone  
Arkosic sandstone, very thick-bedded, yellowish-gray, medium-grained, commonly grading upward to greenish-gray, sandy mudstone. Includes very thick, sandy cobble conglomerate interbeds

UNCONFORMITY

qd ga gd hg  
qd; quartz diorite  
ga; granite and adamellite  
gd; gneissic granodiorite  
hg; hornblende-clinopyroxene gabbro

sch m  
sch; metasedimentary rocks, mainly pelitic schist  
m; marble, locally with interbedded schist

UNCONFORMITY

CONTACT

Long dashed where approximately located; short dashed where inferred

D U  
Fault  
Long dashed where approximately located; short dashed where inferred; dotted where concealed; U, upthrown side; D, downthrown side

Anticline Syncline  
Fold axis, showing trace of axial plane and plunge of fold axis: dashed where approximately located; dotted where concealed

Strike and dip of beds  
Symbol broken where attitude is estimated

Horizontal or nearly horizontal beds

Landslide  
Arrows show direction of movement

REFERENCES  
Clark, J. C., 1966, Tertiary stratigraphy of the Pelton Santa Cruz area, Santa Cruz Mountains, California (Abst.). *Dissertation Abstracts*, v. 27, no. 4, p. 1184-B

QUATERNARY  
TERTIARY  
TERTIARY  
PALEOZOIC CRETACEOUS OR MESOZOIC

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

GEOLOGIC MAP OF THE SOUTHWESTERN SANTA CRUZ MOUNTAINS BETWEEN AÑO NUEVO POINT & DAVENPORT, CALIFORNIA  
BY Joseph C. Clark 1970