



Contact
dashed where gradational or approximately located

Fault
dashed where inferred; dotted where concealed; queried where existence doubtful; double arrows indicate strike-slip movement; U - upthrown side; D - downthrown side relatively

Anticline
Axis of fold arrow on axis indicates direction of plunge

Syncline
Axis of fold arrow on axis indicates direction of plunge

Strike and dip of strata
30° inclined
inclined (approximate)
vertical
70° overturned

Bedrock
sandstone bed
tuff bed

Qa Qls
Surficial deposits
Qa; alluvium
Qls; landslide debris*

Unconformity

Qoa
Older alluvium

Unconformity

QIt
Tassajara Formation
QIt; weakly indurated light greenish-gray mudstone, minor thin lenses of sandstone and pebble conglomerate

Tri
Rhyolitic intrusive

Tps
Nonmarine sedimentary rocks
Tps; weakly indurated pebble conglomerate, sandstone and greenish gray mudstone; few tuff beds

Tn
Neroly Formation(?)
mostly nonmarine, partly marine claystone, siltstone and sandstone, locally pebbly tan sandstone, locally pebbly with clam shell beds, minor siltstone; (includes Briones and Cierbo Sandstones)

Tmsl
marine siltstone, massive, gray, some interbedded sandstone, locally has conglomerate at base

Tmso
Sobrante Sandstone (?), marine wacke sandstone and pebbly conglomerate

Unconformity

Tds
Domengine Sandstone

Tan
arkosic sandstone

Tmgs
Meganos (?) Formation
Tmgs; mainly clay shale
Tmgs; sandstone, locally pebbly at base

Unconformity (?)

Km
Moreno Shale
Km; micaceous claystone
Kmi; semi-siliceous shale

Kp/Kps
Panoche Formation
Kp; micaceous clay shale, some thin sandstone interbeds
Kps; arkosic sandstone, locally contains large concretions; thin shale interbeds

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Geology field checked and modified by T.W. Dibblee, Jr., 1976, 1977; after B. Clark, 1935, J. Taff, 1935, I. Colburn, 1964, and E. Brabb, H. Sonnemans and J. Switzer, 1974.

PRELIMINARY GEOLOGIC MAP OF THE TASSAJARA QUADRANGLE, ALAMEDA AND CONTRA COSTA COUNTIES, CALIFORNIA

by
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1980

U. S. Geological Survey
OPEN-FILE REPORT
This report is preliminary and has not been edited or reviewed for conformity with Geological Survey Standards and nomenclature