

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

STATE OF CALIFORNIA  
DEPARTMENT OF WATER RESOURCES

GILROY QUADRANGLE  
CALIFORNIA—SANTA CLARA CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)  
SE 1/4 MORGAN HILL 15' QUADRANGLE

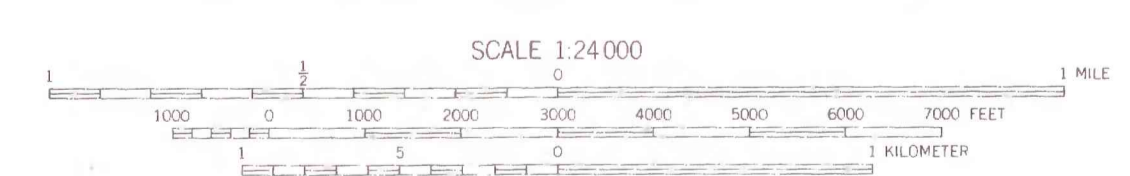


- Qg, Qls, Qlb
- Surficial deposits
- Qr, man-made rock fill
- Qg, gravel and sand of stream channels
- Qa, alluvium-gravel, sand, silt and clay
- Qls, landslide debris
- Qlb, landslide of basalt debris
- UNCONFORMITY
- Qoa
- Older alluvium (dissected)
- UNCONFORMITY
- Qsc
- Santa Clara Formation (terrestrial)
- Qsc, gravel, sand & clay
- Qsb, gravel with basalt detritus
- Qtb
- Unnamed basalt (olivine basalt lava 3.5 my old\*)
- bt, intrusive
- Tsc
- Unnamed sandstone and conglomerate (terrestrial)
- UNCONFORMITY
- Tus
- Unnamed sandstone (marine)
- Tm
- Monterey (siliceous) shale (marine, middle Mio)
- Tms
- Temblor? Sandstone (marine)
- UNCONFORMITY
- KTsh
- Unnamed marine sedimentary rocks (age, early Eocene-Paleocene and/or late Cretaceous)
- No pattern = micaceous shale and siltstone
- arkosic sandstone
- conglomerate
- limestone
- Ksh
- Berrysa Formation? of Crittenden, 1951 (marine shale)
- dotted unit = sandstone
- Kshl
- Unnamed shale
- sp
- Serpentine and serpentinized ultramafic rocks
- fs, fc, fg
- Franciscan rocks (severely shattered eugeosynclinal marine rocks, graywacke, sandst and minor claystone, fc, varicolored chert, fg, greenstone (altered from basaltic rocks))

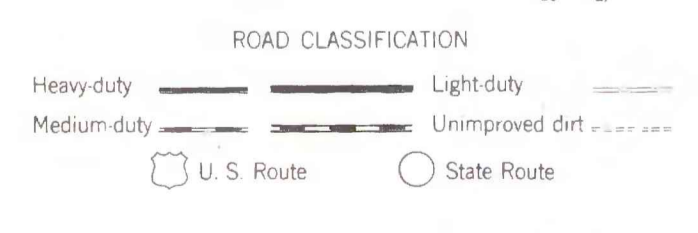
- Contact dashed where gradational or approximately located
- Fault dashed where inferred; dotted where concealed; U=upthrown block; D=downthrown block, relatively; single arrow indicates observed dip of fault; double parallel arrows indicate lateral movement
- inclined vertical
- overturned
- Strike and dip of bedding
- anticline syncline
- Axis of fold end arrow indicates direction of plunge
- molluscan foraminiferal
- Fossil localities
- E=indicates foraminifers of Paleocene or early Eocene age;
- K=indicates molluscs *Inoceramus?* fragments suggestive of Cretaceous age reported by Bennett, 1972 and Frames, 1955;
- J=indicates molluscs *Buchia piochii?* suggestive of latest Jurassic age, found by D.R. Radbruch

References  
Bennett, R.E., Geology of the Dexter Canyon area, Santa Clara County, Calif. M.A. thesis, San Jose State College, 1972 (unpub.)  
Frames, D.W., 1955, Stratigraphy and structure of the lower Coyote Creek area, Santa Clara County, California: M.A. thesis, Univ. Calif. Berkeley (unpub.)

Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography from aerial photographs by multiplex methods and by planimetric surveys 1955. Aerial photographs taken 1953  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on California coordinate system, zone 3  
Red tint indicates areas in which only landmark buildings are shown  
Dashed land lines indicate approximate locations  
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue  
Revisions shown in purple compiled from aerial photographs taken 1968. This information not field checked  
Purple tint indicates extension of urban areas



CONTOUR INTERVAL 20 FEET  
DASHED LINES REPRESENT 10-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL



GILROY, CALIF.  
SE 1/4 MORGAN HILL 15' QUADRANGLE  
N 3700—W 12130/7.5  
1955  
PHOTOREVISED 1968  
AMS 1658 II SE—SERIES V895

PRELIMINARY GEOLOGIC MAP OF THE GILROY QUADRANGLE, SANTA CLARA COUNTY, CALIFORNIA

By Thomas W. Dibblee Jr., 1973

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