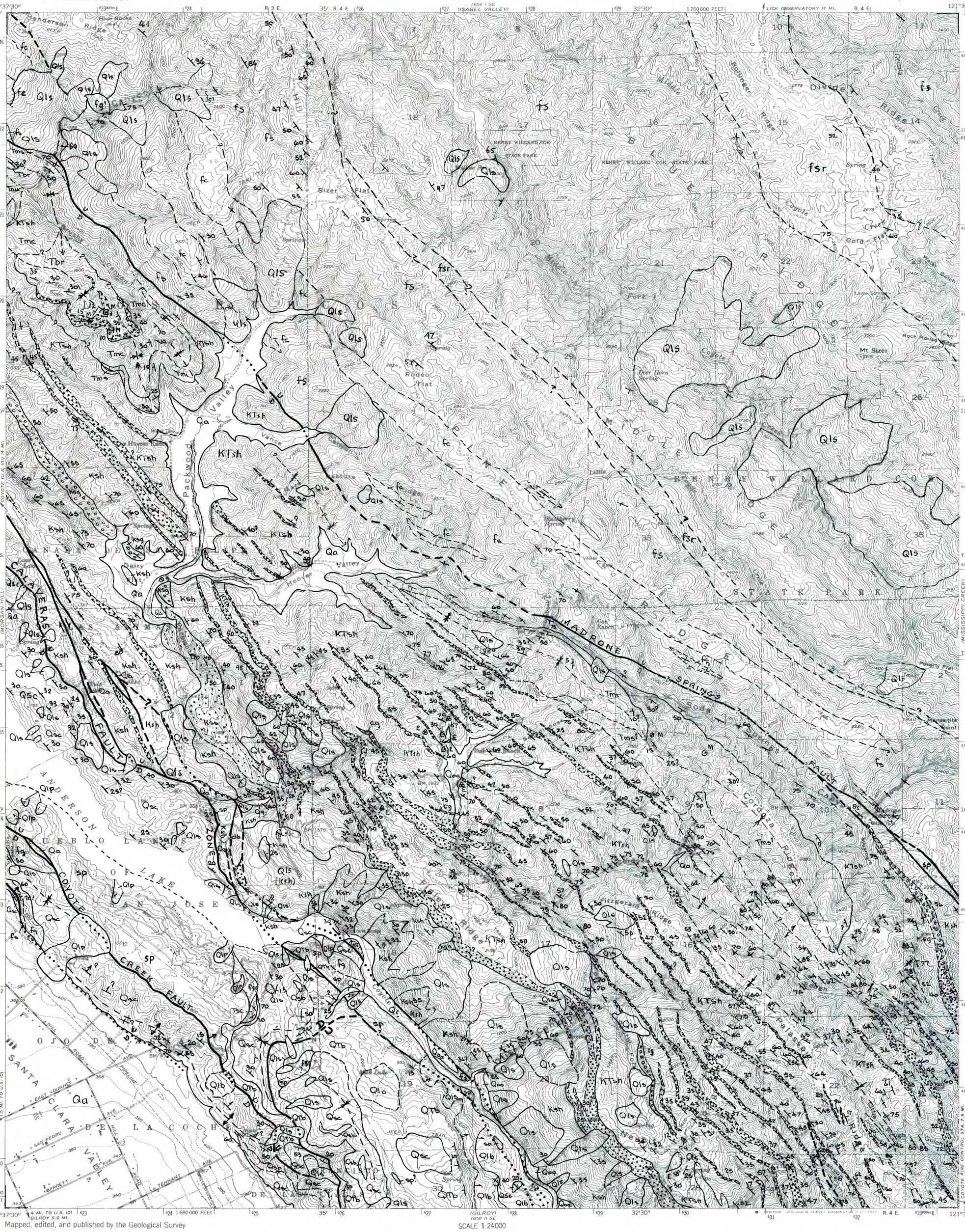
U.S. GEOLOGICAL SURVEY
OPEN FILE MAP
73-59

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

MT. SIZER QUADRANGLE
CALIFORNIA–SANTA CLARA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



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
M, fossils diagnostic or suggestive of late Miocene age;
E, fossils diagnostic or suggestive of early Eocene or Paleocene age;
K, fossils suggestive of Cretaceous age;
(Reported by D.W. Frames, (1955) and Susan Bartsch)

Surficial deposits
Qg, gravel and sand of stream channels
Qa, alluvium
Qls, landslide debris
Qlb, landslide of basalt debris
Qlp, landslide of serpentine debris
UNCONFORMITY
Qoa
Older alluvium
UNCONFORMITY
Qsc
Santa Clara Formation (terrestrial)
Qsc, gravel, sand and clay
Qsb, gravel with basalt detritus
QTb
Unnamed basalt (olivine basalt lava) 3.5 m.y. old by Curtis, verbal communication
Tsc
Unnamed sandstone and conglomerate (terrestrial)
UNCONFORMITY
Tbr
Briones sandstone (marine upper Miocene)
fossilif. sandstone
Tmc, Tmi
Monterey (Claremont) shale (marine)
Tmc, clay shale
Tmi, brittle siliceous shale
Tms
Sobrante (?) sandstone (marine)
UNCONFORMITY
KTsh
Unnamed marine sedimentary rocks (age, early Eocene-Paleocene and/or late Cretaceous)
No pattern; micaceous clay shale and siltstone
, arkosic sandstone
, conglomerate
, limestone
Ksh, Ksg
Berryessa? Formation of Crittenden 1951 (marine)
Ksh, clay shale
Ksg, and dotted units arkosic sandstone
Ksg, conglomerate and sandstone
db, sp
Mafic rocks (intrusive)
db, diabase
sp, serpentine and serpentinized ultramafic rocks
fs, fc, fg, fsr
Franciscan rocks (severely shattered marine eugeosynclinal rocks)
fs, graywacke sandstone and minor claystone
fc, varicolored chert
fg, greenstone altered from basalt rocks
fsr, pervasively sheared shale and graywacke containing fragments of graywacke, chert, greenstone and glaucophane rock

Holocene
Pleistocene
QUATERNARY
Pliocene and Pleist.
Pliocene ?
Miocene
TERTIARY
Upper Cretac. and/or Paleo-Eocene
Upper ?
CRETACEOUS
JURASSIC ? OR CRETACEOUS

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography from aerial photographs by multiplex methods and by planetable surveys 1955. Aerial photographs taken 1953.
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 3
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue
Revisions shown in purple compiled from aerial photographs taken 1971. This information not field checked

UTM GRID AND 1971 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
(MN, GN; 0°52' 15 MILS; 16½° 293 MILS)

SCALE 1:24000
1 ½ 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DASHED LINES REPRESENT 10 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D.C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

CALIF
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty
Unimproved dirt

Geology of Franciscan rocks NE of Madrone Springs Fault after Cotton, 1972, with additions and modifications by T.W. Dibblee
Cotton, W.R., 1972, U.S.G.S. Misc. Field Studies Map MF-343

MT. SIZER, CALIF.
N3707.5—W12130/7.5
1955
PHOTOREVISED 1971
AMS 1658 II NE—SERIES V895

PRELIMINARY GEOLOGIC MAP OF THE MT. SIZER 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.