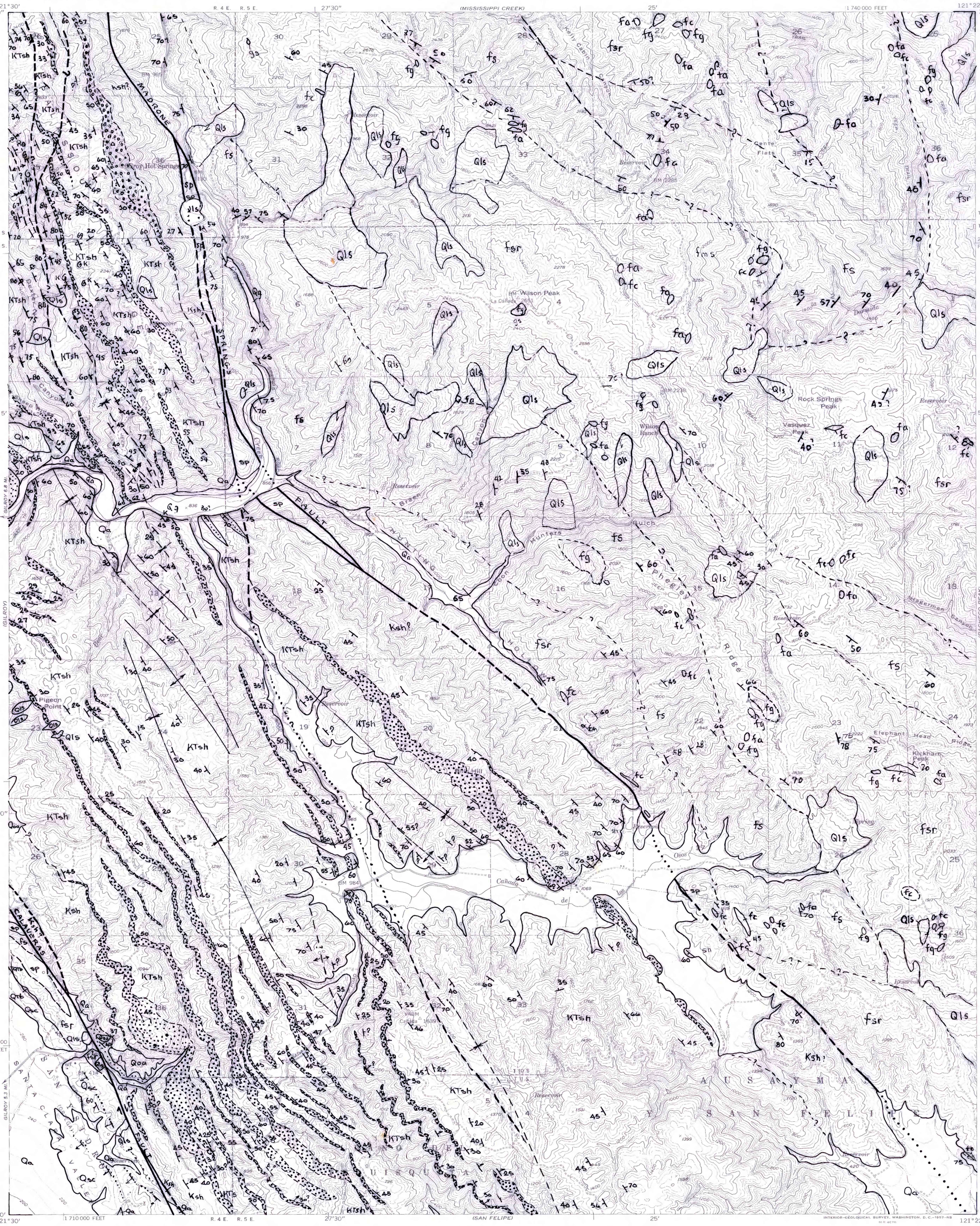
73-59

U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GILROY HOT SPRINGS QUADRANGLE
CALIFORNIA—SANTA CLARA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 GILROY HOT SPRINGS 15' QUADRANGLE



Surficial deposits

Qg, gravel and sand of stream channels

Qa, alluvium—gravel, sand and clay

Qls, landslide debris

Holocene

UNCONFORMITY

Qsc

Santa Clara Formation (terrestrial) gravel, sand and clay

Pliocene or Pleistocene? — Pleistocene? — Holocene — QUATERNARY

QTb

Unnamed basalt (olivine basalt lava)

Pliocene or Pleistocene

UNCONFORMITY

KTsh

Unnamed marine sedimentary rocks (age, early Eocene—Paleocene and/or late Cretaceous)

No pattern = micaceous shale and siltstone

arkosic sandstone

conglomerate

U. Cretac. and/or Paleo.-Eocene — TERTIARY

Ksh

Berryessa Formation of Crittenden, 1951

Ksh, clay shale and siltstone dotted units, arkosic sandst.

Upper — CRETACEOUS

sp

Serpentine and serpentinized ultramafic rocks

fs | fc | fg | fa | fsr

Franciscan rocks (severely shattered eugeosynclinal marine rocks)

fs, graywacke sandstone, minor claystone

fc, varicolored chert

fg, greenstone

fa, glaucophane rock

fsr, pervasively sheared shale and graywacke containing tectonic fragments of graywacke, chert, greenstone and glaucophane rock

JURASSIC ? OR CRETACEOUS

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

K—indicates fossils diagnostic of or suggestive of U. Cretac. age; molluscan fossils are Inoceramus fragments; ammonite fragment from float in Sec. 35 T. 9 S.—R. 4 E.; and microfossils; Mollusks reported by Bennett, (1972); Microfossils by Frames, (1955)

Some bedding attitudes in Dexter Canyon from Bennett, (1972) Geology of Franciscan rocks NE of Madrone Springs Fault modified from Cotton, (1972) and Bates McKee, unpub.

References;

Bennett, R.E., 1972, Geology of the Dexter Canyon area, Santa Clara County, Calif. M.A. thesis, San Jose State College, unpub.;

Cotton, W.R., 1972, U.S.G.S. Misc. field studies Map MF-343

Frames, D.W., 1955, Stratigraphy and structure of the lower Coyote Creek area, Santa Clara Co., Calif. 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
Aerial photographs taken 1953. Field check 1954–55

Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 3

Dashed land lines indicate approximate locations

Unchecked elevations are shown in brown

SCALE 1:24000

1 MILE — 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER — 1 .5 0 1

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

17° TRUE NORTH — MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1955

CALIF.
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
U. S. Route — State Route

GILROY HOT SPRINGS, CALIF.
SW/4 GILROY HOT SPRINGS 15' QUADRANGLE
N3700—W12122.5/7.5

1955

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER 2, COLORADO OR WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PRELIMINARY GEOLOGIC MAP OF THE GILROY HOT SPRINGS 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.