GRAPEVINE

73-57

U.S. GEOLOGICAL SURVEY
OPEN FILE MAP

GEOLOGIC MAP OF THE GRAPEVINE QUADRANGLE, CALIFORNIA

COMPILED BY T.W. DIBBLEE JR., 1973

Surficial sediments
Qg-alluvial fan gravel
Qa-alluvium

Landslide debris

Older alluvium

Older fan gravel

UNCONFORMITY

Tulare Formation
(terrestrial gravel, sand, clay)

Monterey Shale
Gould Shale Member
(marine; Relizian or Saucesian age)
Tmg-siliceous shale
Tmc-clay shale

Unnamed conglomerate
(alluvial granitic cobble boulder conglom, sandst, and clay; tongues out westward into lowest part of Monterey Shale)

Temblor Formation
(marine; Saucesian Stage
Tt-mostly clay shale or siltst.
Tts-mostly sandst. some siltst.

Volcanic rocks
(extrusive flows in Tecuya Fm.)
Tvb-basalt
Tvd-porphyritic dacite to andesite

Tecuya Formation
(terrestrial sediments early Miocene or Oligocene)
Ttc-red, green and gray sandstone, conglom, and clay, above volcanic rocks
Ttg-mostly alluvial conglomerate below volcanic rocks; some red, green and blue sand and clay west of Tecuya Creek
Tgb-granitic breccia (shattered granitic rock)

Tejon Formation
(marine sedimentary rocks)
Ttr-Reed Canyon Siltst. Member (may be same unit as San Emigdio Fm. in part)
Ttm-Metralla Sandstone Member (fine grained sandstone, some micaceous siltst.)
Ttl-Liveoak Shale Member (siltst. & shale, some sandst.)
Ttu-Uvas Member (basal sandstone and conglom.)

UNCONFORMITY

Granitic rocks
qm-quartz monzonite-granodiorite
qd-biotite-quartz diorite to granodiorite and diorite; locally includes gneiss

* See Nilsen et al, 1973, for description and age of this unit

† See Nilsen, 1973, for description and age of this unit

Contact
dashed where gradational or approximately located

Fault
dashed where uncertain
dotted where concealed
U-upthrown side
D-downthrown side, relatively
arrow indicates observed dip of fault plane

anticline syncline
Axis of fold showing position at surface and direction of plunge

inclined vertical overturned
Strike and dip of bedding (in degrees from horizontal)

Strike and dip of foliation

Direction of dip of bedding

Downslope direction of movement of landslide debris

Sandstone bed Boulder bed

2816' Abandoned test hole drilled for oil or gas (showing depth in feet)

INDEX TO SOURCE OF GEOLOGY
1-Dibblee, 1961, modified
2-Dibblee, T.W. Jr. and Nilsen, T.H., fieldwork, 1971

References:
Dibblee, T.W. Jr., 1961, Geologic map of San Emigdio Mtns., 1961 AAPG-SEPM-SJGS Guidebook
Ross, D.C., 1970, Quartz-gabbro and anorthositic gabbros along San Andreas fault, Calif. Coast Ranges; GSA Bull. v. 81, p. 3047-62
Nilsen, T.H., Dibblee, T.W. Jr., Addicott, W.O., 1973, Lower and middle Tertiary stratigraphic units of the San Emigdio and western Tehachapi Mtns., Calif.: USGeol. Survey Bull. 1372-H
Nilsen, T.H., 1973, Facies relations in the Eocene Tejon Formation of the San Emigdio and western Tehachapi Mtns. Calif., in Sedimentary facies changes in Tertiary rocks-Calif. Transverse and southern Coast Ranges: 1973 AAPG-SEPM-SEG guidebook, field trip 2, p. 7-23

Mapped by the Army Map Service
Edited and published by the Geological Survey

Control by USGS, USC&GS, and, USFS,

Topography from aerial photographs by KEK plotter
Aerial photographs taken 1942. Field check 1943
Culture revised by the Geological Survey 1958

Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 5
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Dashed land lines indicates approximate locations

Unchecked elevations are shown in brown

The north half of this map lies within an unstable area

SCALE 1:24000

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1958

ROAD CLASSIFICATION
Heavy-duty
Medium-duty
Light-duty
Unimproved dirt
U.S. Route

QUADRANGLE LOCATION

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

GRAPEVINE, CALIF.
N3452.5—W11852.5/7.5

1958

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5 July 1973 TWD