UNITED STATES
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STATE OF CALIFORNIA
GOODWIN J. KNIGHT, GOVERNOR
HARVEY O. BANKS, DIRECTOR OF WATER RESOURCES

GREENFIELD QUADRANGLE
CALIFORNIA
15 MINUTE SERIES (TOPOGRAPHIC)

SW of San Andreas Fault

Qrs	River sand	Holocene
Qc	Clay	Holocene
Qa	Alluvium	Holocene
Qls	Landslide debris	Holocene
UNCONFORMITY		
Qoa	Older alluvium	Pleistocene
UNCONFORMITY		
QTp	Paso Robles Fm. (terrestrial gravel, sand and clay)	Pleistocene
LOCAL UNCONFORMITY		
Tus	Unnamed sandstone	Pliocene
Tcg	Unnamed conglom.	Pliocene
Tpo	Pancho Rico Fm. (marine diat. mudstone)	Pliocene
Tas	Arkosic sandst.	Pliocene
Tsg	Conglomerate & sandst. of granitic and volcanic debris (terrestrial)	Miocene
Tmc / Tm	Monterey Shale Tmc, claystone and siltstone Tm, siliceous shale	Miocene
Tvs	Vaqueros Sandstone	Miocene
Tvp	Pinnacles Fm. (volcanic breccia & tuff)	Oligocene
Td / Tvb	Volcanic rocks Td, intr. & extr. felsite (dacite, rhyolite and andesite) Tvb, vent breccia	Oligocene
gr	Granitic rocks (quartz diorite, granodiorite and quartz monzonite)	MESOZOIC
ms / m	Metasedimentary rocks ms, schist-gneiss m, marble	PALEOZOIC?

QUATERNARY · TERTIARY

NE OF SAN ANDREAS F.

Te	Etchegoin Fm.	Pliocene
Tun	Unnamed red beds	Pliocene
Tb	Basalt	Pliocene
Tsm	Santa Margarita (Sandstone & clay)	Miocene?
UNCONFORMITY		
Kp	Panoche Fm. (shale, minor sandst.)	Upper Cretaceous
Kgf	Gravelly Flat Fm. (of Rose & Colburn, 1963, sh)	Lower Cretaceous
sp	Serpentine	?---
f	Franciscan rocks	JURASSIC?

TERTIARY · CRETACEOUS

Contact
Dashed where gradational or approximately located

Fault
Dashed where doubtful
Dotted where concealed
U, upthrown side
D, downthrown side
arrows indicate horizontal movement

Anticline · Syncline
Axis of fold showing direction of plunge

Horizontal

Inclined

Vertical

Overturned

Strike and dip of strata

Abandoned well drilled for oil or gas

Mapped, edited, and published by the Geological Survey
Control by USGS and USC&GS
Topography by planetable survey 1912 and 1917
Culture revised from aerial photographs taken 1949
Field check 1957
Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 4
1000-meter Universal Transverse Mercator grid ticks, zone 10, shown in blue

Drafted by Dianne Stoske and Gertrude J. Edmonston, 1971

Geology by T.W. Dibblee Jr., 1969, 1970. N.W. part (NW and W of Chalone Creek modified after Philip Andrews, 1936, U.C. Pub. Dept. Geol. Vol. 24, no. 1, pl. 38)

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

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

The southwest quarter of this area is also covered by a 1:24,000-scale map of the Greenfield 7.5-minute quadrangle, surveyed 1952.

GREENFIELD, CALIF.
N3615—W12100/15
1957

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

GEOLOGIC MAP OF THE GREENFIELD QUADRANGLE, CALIFORNIA