UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
GOODWIN J. KNIGHT, GOVERNOR
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UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

JOAQUIN ROCKS QUADRANGLE
CALIFORNIA—FRESNO CO.
15 MINUTE SERIES (TOPOGRAPHIC)

(MONOCLINE RIDGE) 1:24 000 — (SAN JOAQUIN) 1:24 000

Qa
Alluvium

Qls
Landslide rubble

Qoa
Older alluvium
UNCONFORMITY

QTt
Tulare Form.
(terrest. gravel & sand)

Tsj
San Joaquin Form.
(brackish marine clay, sand)

Tun
Unnamed nonmarine deposits (gravel, clay and sand)

Te | Teb
Etchegoin Fm.
(brackish marine)
Te, sand, clay, conglom.
Teb, blue sandstone
UNCONFORMITY
(in SW part)

Tsm
Santa Margarita Fm.
(marine sandstone)

Tsp | Tsg | Tsc
Big Blue Form.
(nonmarine)
Tsp, serpentine landslide rubble
Tsg, serpentine conglom.
Tsc, serpentinous clay

Tt
Temblor Sandstone
(marine)
UNCONFORMITY

Ttu
Tumey Fm.
of Atwill 1935
(semi-siliceous shale)

Tks | Tk
Kreyenhagen Shale
Tks, siliceous shale
Tk, mostly clay shale

Td
Domengine (or Avenal)
Sandstone (marine)

Tl | Tlc
Lodo Fm.
Tl, Arroyo Hondo Shale Member
Tlc, Cantua Sandst. Mbr

Km
Moreno Clay
and semi-silic. shale

Kp | Kps | Kpi
Panoche Form.
Kp, clay shale
Kps, sandstone
Kpi, interbedded sandstone and shale
Sub-units:
Kps_3, sandstone of Brown Mountain
Kp_2, shale of Ragged Valley
Kps_1, sandstone of Joaquin Ridge

QUATERNARY: Holocene; Pleistocene; Pliocene
TERTIARY: Miocene; Oligocene; Eocene; Paleocene
UPPER CRETACEOUS

Contact
Dashed where gradational or approximately located

Fault

Anticline — Syncline

Axis of fold, showing direction of plunge

30 Inclined

Vertical

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 surveys 1940–41, and 1956
Culture revised from aerial photographs taken 1953, and 1955
Field check 1956

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

The northeast portion of this map lies within a subsidence area

SCALE 1:62500

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1956

Drafted by Gertrude J. Edmonston

Geology by T. W. Dibblee Jr.
March–April 1969

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Medium-duty — Light-duty —
Unimproved dirt - - - -
State Route

This area is also partially covered by 1:24,000 scale maps of Tres Picos Farms, Little Ranch and Domengine Ranch 7.5 minute quadrangles, surveyed in 1956

JOAQUIN ROCKS, CALIF.
N3615—W12015/15

1956

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

MAPPED BY T. W. DIBBLEE JR, 1971

GEOLOGIC MAP OF THE JOAQUIN ROCKS QUADRANGLE, CALIFORNIA

THIS MAP IS PRELIMINARY AND HAS NOT BEEN EDITED OR REVIEWED FOR CONFORMITY WITH U.S. GEOLOGICAL SURVEY STANDARDS