

UNITED STATES GEOLOGICAL SURVEY



- Qa Qls**
Surficial deposits
Qa; alluvium
Qls; landslide debris
- Unconformity
- Qoa**
Older alluvium
- Unconformity
- Qtu**
Tulare (?) Formation
Alluvial gravel, sand and clay
- Unconformity
- Tps Tpc**
Nonmarine sedimentary rocks
Tps; gray pebble-cobble conglomerate and sand
Tpc; gray clay or mudstone
- Tn**
Neroly (?) Formation
Nonmarine gray to blue friable sandstone
- Unconformity
- Tk**
Kreyenhagen Shale
Marine clay shale and siltstone
- Td**
Domengine (?) Sandstone (marine)
- Tte₁ Tte₂ Tte₃ Tte₄**
Tesla Formation
(Marine and (?) brackish-marine)
Tte₄; mudstone, siltstone, and fine-grained sandstone
Tte₃; white, quartzose sandstone
Tte₂; sandy siltstone
Tte₁; medium to fine-grained sandstone
- Kms**
Moreno Shale (marine)
- Km**; micaceous clay shale
Kms; light tan, arkosic sandstone
- Kps Kp**
Panoche Formation (marine)
Kps; light tan, hard, slightly micaceous arkosic sandstone, bedded; contains some large concretions and minor interbedded shale
Kp; gray micaceous clay shale; minor thin sandstone beds

Holocene
Pleistocene
Pliocene
Miocene
Eocene
Paleocene (?)
Upper Cretaceous
CRETACEOUS
TERTIARY

References
Bishop, C.C., 1970, Upper Cretaceous stratigraphy of the west side of the northern San Joaquin Valley, Stanislaus and San Joaquin Counties, California: California Division Mines and Geology Special Report 104, 29 p.

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

Geology mapped by T.W. Dibblee, Jr. (1974); in part modified from C.C. Bishop (1970), and H.S. Sonneman and J.R. Switzer, Jr., unpublished data

SCALE 1:24,000

ROAD CLASSIFICATION
Heavy-duty ——— Lane & Lane Light-duty ———
Medium-duty ——— Lane & Lane Unimproved dirt ———
U.S. Route ——— State Route ———
Interstate Route ———

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 5 FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

QUADRANGLE LOCATION

PATTERSON, CALIF.
N3722.5-W12107.5/7.5

1953
PHOTOREVISED 1971
AMS 1758 I NW SERIES V895

PRELIMINARY GEOLOGIC MAP OF THE PATTERSON QUADRANGLE, STANISLAUS COUNTY, CALIFORNIA

by
Thomas W. Dibblee, Jr.

1982