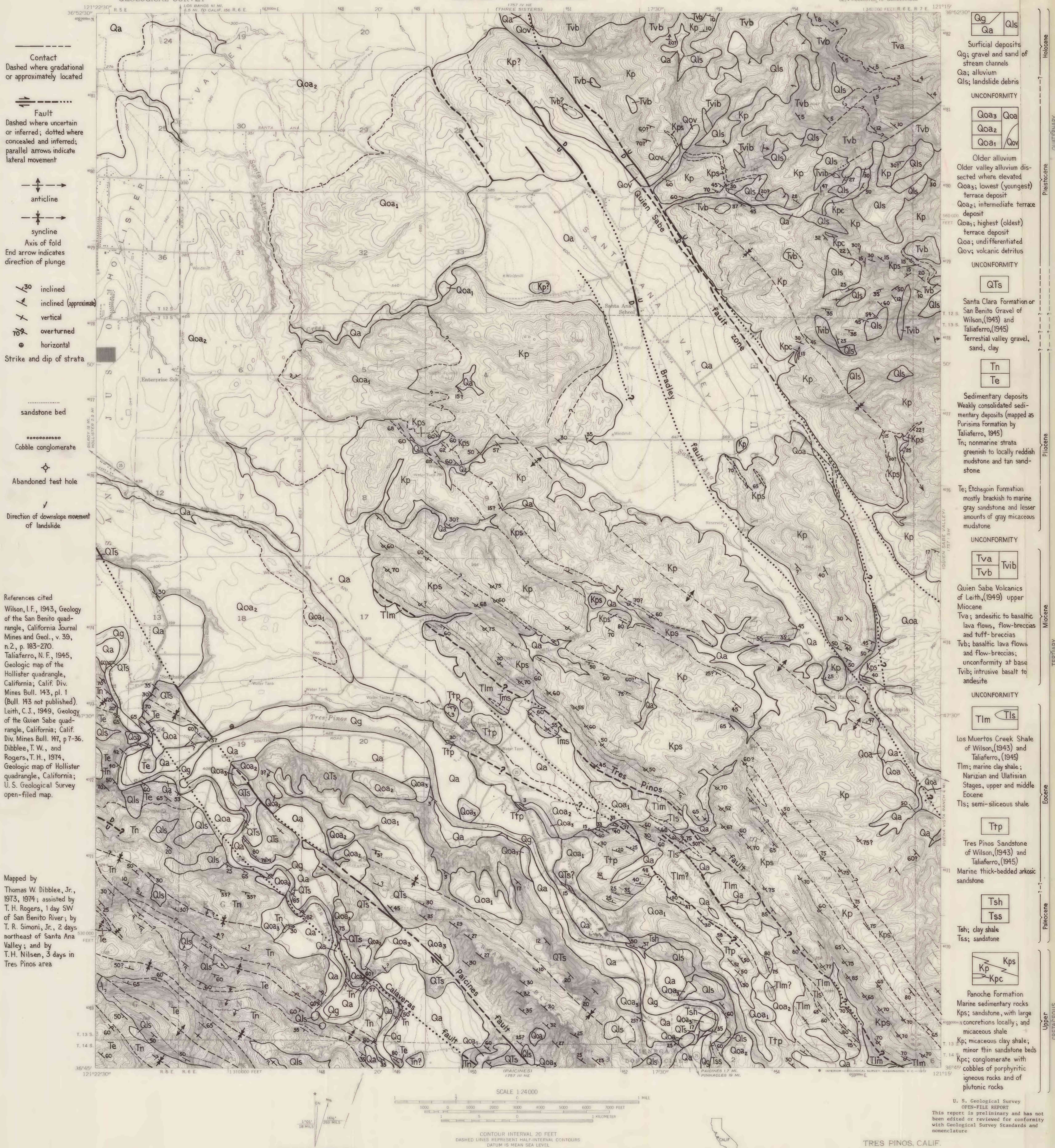


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

TRES PINOS QUADRANGLE
CALIFORNIA - SAN BENITO CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 HOLLISTER 15' QUADRANGLE



PRELIMINARY GEOLOGIC MAP OF THE TRES PINOS QUADRANGLE, SAN BENITO COUNTY, CALIFORNIA

By Thomas W. Dibblee, Jr.

1979

Qg
Qa
Qls

Surficial deposits
Qg; gravel and sand of
stream channels
Qa; alluvium
Qls; landslide debris

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Qoa₃ Qoa
Qoa₂
Qoa₁ Qov

Older alluvium
Older valley alluvium dis-
sected where elevated
Qoa₃; lowest (youngest)
terrace deposit
Qoa₂; intermediate terrace
deposit
Qoa₁; highest (oldest)
terrace deposit
Qov; undifferentiated
Qov; volcanic detritus

UNCONFORMITY

QTs

Santa Clara Formation or
San Benito Gravel of
Wilson, (1943) and
Taliaferro, (1945)
Terrestrial valley gravel,
sand, clay

Tn

Te

Sedimentary deposits
Weakly consolidated sedi-
mentary deposits (mapped as
Purisma Formation by
Taliaferro, 1945)
Tn; nonmarine strata
greenish to locally reddish
mudstone and tan sand-
stone

Te; Etchegoin Formation
mostly brackish to marine
gray sandstone and lesser
amounts of gray micaceous
mudstone

UNCONFORMITY

Tva Tvb

Quien Sabe Volcanics
of Leith, (1949) upper
Miocene
Tva; andesitic to basaltic
lava flows, flow-breccias
and tuff-breccias
Tvb; basaltic lava flows
and flow-breccias;
unconformity at base
Tvb; intrusive basalt to
andesite

UNCONFORMITY

Tlm Tls

Los Muertos Creek Shale
of Wilson, (1943) and
Taliaferro, (1945)
Tlm; marine clay shale;
Narizian and Uplandian
Stages, upper and middle
Eocene
Tls; semi-siliceous shale

Ttp

Tres Pinos Sandstone
of Wilson, (1943) and
Taliaferro, (1945)
Marine thick-bedded arkosic
sandstone

Tsh

Tss

Tsh; clay shale
Tss; sandstone

Kp Kps

Panoche Formation
Marine sedimentary rocks
Kps; sandstone, with large
concretions locally; and
micaceous shale
Kp; micaceous clay shale;
minor thin sandstone beds
Kpc; conglomerate with
cobbles of porphyritic
igneous rocks and of
plutonic rocks

U. S. Geological Survey
OPEN-FILE REPORT
This report is preliminary and has not
been edited or reviewed for conformity
with Geological Survey Standards and
nomenclature

TRES PINOS, CALIF.