

UNITS WESTWEST
OF SAN ANDREAS
FAULT

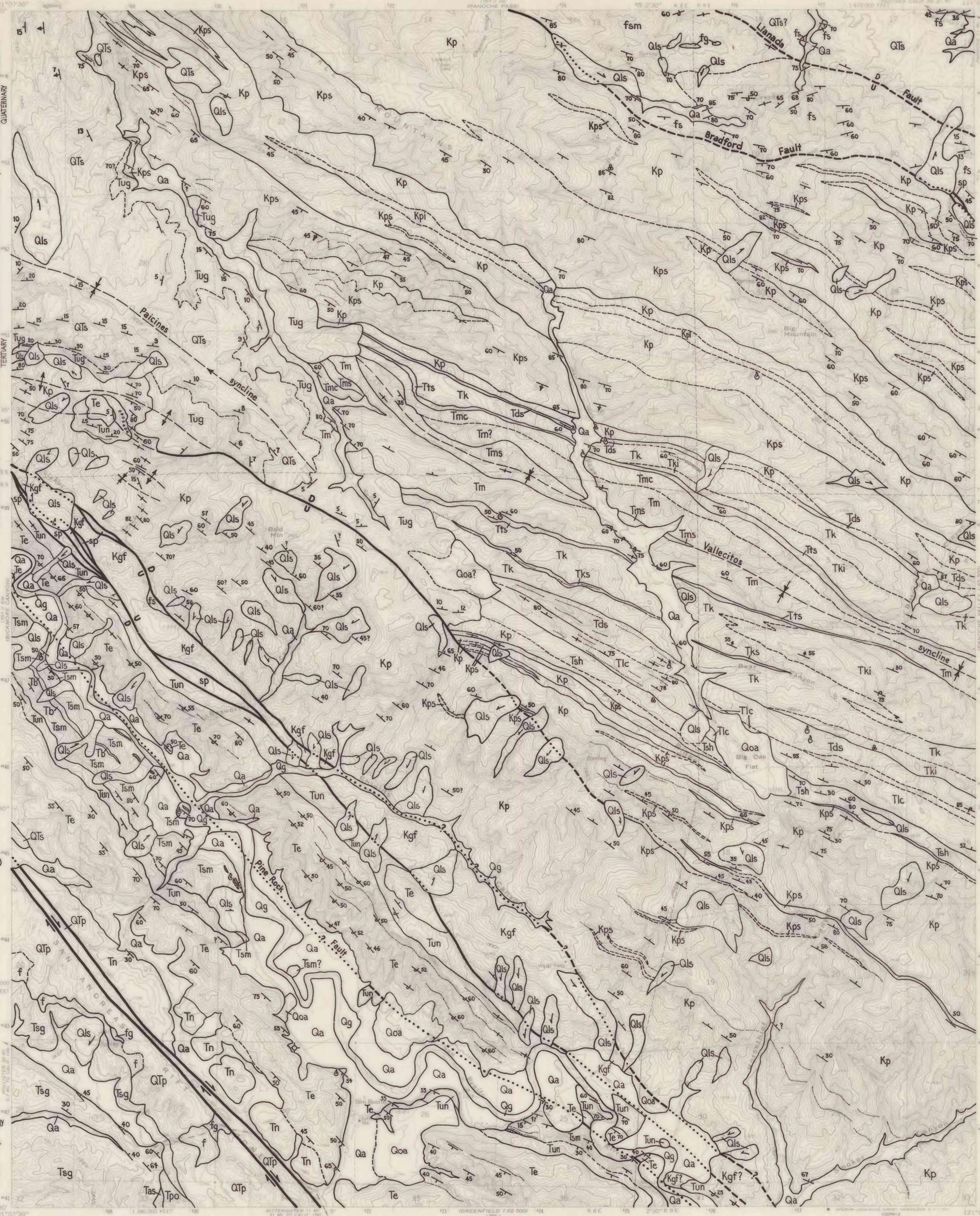
- Qa Qls**
Surficial deposits
Qa; alluvium
Qls; landslide debris
- UNCONFORMITY**
- QTp**
Valley sediments
(Paso Robles Formation)
QTp; weakly indurated clay,
sand, and gravel
f; Franciscan landslide(?)
detritus
fg; Franciscan greenstone
landslide(?) detritus
- UNCONFORMITY**
- Tcg**
Conglomerate of granitic
detritus—terrestrial
- Tpo**
Pancho Rico Formation
Marine, diatomaceous mud-
stone
- Tas**
Arkosic sandstone—
brackish-marine? white,
unfossiliferous
- UNCONFORMITY(?)**
- Tsg**
Conglomerate
Terrestrial, composed of
unsorted granitic and minor
minor rhyolitic detritus in
matrix of arkosic sandstone
(upper Miocene)

- Contact**
dashed where gradational
or approximately located
- Fault**
dashed where inferred;
dotted where concealed;
querried where existence
doubtful;
double arrows indicate
strike-slip movement;
U - upthrown side
D - downthrown side
relatively
- Axis of fold**
arrow on axis indicates
direction of plunge
- Strike and dip of strata**

- anticline**
- syncline**
- inclined**
- inclined (approximate)**
- vertical**
- overturned**

- sandstone bed**
- o o o o o conglomerate bed**
- limestone lens**
- γ direction of downslope
movement of landslide**
- ⊗ Molluscan fossil
locality**
- ⊙ Microfaunal locality**
- ⊕ Abandoned test hole**

References cited:
Rose, R. L., and Colburn, I. P., 1963, Geology
of east central part of the Priest Valley
quadrangle, Calif.: in: Guidebook to the
Geology of the Salinas Valley: Pacific
Secs. A.A.P.G.—S.E.P.M., p. 38-45.
Wilson, J. F., 1943, Geology of the San
Benito Quadrangle, California: Calif.
Jour. Mines and Geol., State Min.
Rept. 39, n. 2, p. 183-270; pl. 3.



UNITS NORTHEAST
OF SAN ANDREAS
FAULT

- Qg Qls**
Surficial deposits
Qg; gravel and sand of
stream channels
Qa; alluvium
Qls; landslide debris
- UNCONFORMITY**
- Qoa**
Older alluvium
- UNCONFORMITY**
- QTs**
Valley sediments
Santa Clara Formation
or San Benito Gravel of
Wilson, (1943)
Weakly indurated gravel,
sand, and clay
- Tn**
Te
- Tun Tug**
Sedimentary rocks
Tn; terrestrial pebbly to
sandy greenish clay
Te; Etehegoin Formation
marine light brown
fossiliferous sandstone
and gray siltstone
Tun; terrestrial red and
green clay, sand, and
pebble conglomerate of
Franciscan detritus
Tug; terrestrial gray to
brown conglomerate of
Franciscan detritus
- UNCONFORMITY**
- Tsm Tb**
Santa Margarita Formation
(upper miocene)
Tsm; marine and brackish
marine gray sandstone;
minor claystone
Tb; basalt flow or sill
- UNCONFORMITY**
- Tms**
Tmi
Tmc
Tts

- Marine sedimentary rocks
(middle miocene)**
Tms; gray arkosic sandstone
Tmi; Monterey Shale, siliceous
and semi-siliceous shale
Tmc; clay shale
Tts; Temblor Sandstone
gray, arkosic
- UNCONFORMITY?**
- Tki Tks**
Kreyenhagen Shale
(upper and middle Eocene);
marine
Tki; siliceous and clay shale
Tks; clay shale
TKs; sandstone

- Tds**
Domengine Sandstone
(middle Eocene)
Marine, fine grained,
fossiliferous; white sand-
stone at base locally
- UNCONFORMITY**
- Tlc**
Cantua Sandstone
(Member of Lodo Formation)
Marine thick-bedded, arkosic
unfossiliferous, (lower Eocene?)

- Tsh**
Marine clay shale
(Paleocene, Eocene, or
upper Cretaceous)
- Kps**
Kpi
Kp

- Pancho Formation**
Marine turbidite sequence
Kps; arkosic sandstone;
some with large concretions;
minor micaceous shale
Kp; micaceous shale; minor
sandstone
Kpi; semi-siliceous shale

- Franciscan rocks**
Weakly metamorphosed marine sedi-
mentary rocks; pervasively sheared
fs; graywacke sandstone and micaceous shale
fg; greenstone, metamorphosed from basalt
fsm; same as fs, but more sheared
- Kgf**
Gravelly Flat Formation of
Rose and Colburn, (1963)
Marine micaceous shale

- sp**
Serpentine

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

By Thomas W. Dibblee, Jr.

1979

This report is preliminary and has
not been edited or reviewed for
conformity with Geological Survey
standards and nomenclature.

Geology originally mapped by Wilson, 1943;
field-checked and partly remapped by
Thomas W. Dibblee, Jr., 1973-74
accompanied 2 days by Tor H. Nilsen

QUATERNARY
 Pliocene
 TERTIARY
 Miocene
 Eocene
 UPPER JURASSIC or LOWER CRETACEOUS
 LOWER JURASSIC or LOWER CRETACEOUS