

# U.S. GEOLOGICAL SURVEY OPEN FILE MAP

74-1021

S.W. of SAN ANDREAS FAULT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

UNITED STATES  
DEPARTMENT OF THE ARMY  
CORPS OF ENGINEERS

STATE OF CALIFORNIA  
REPRESENTED BY THE  
DIRECTOR OF PUBLIC WORKS

GONZALES QUADRANGLE  
CALIFORNIA  
15 MINUTE SERIES (TOPOGRAPHIC)

NE of SAN ANDREAS FAULT

- Qg**  
Surficial sediments  
Qg-river gravel and sand  
Qa-alluvium
- Qls**  
Landslide debris
- Qoa**  
Dissected surficial deposits  
Qoa-older alluvium  
Qoa-youngest, lowest  
Qoa2-older, higher
- Tag**  
Granitic conglomerate  
(terrestrial conglomerate of unsorted granitic detritus)
- gr**  
Granitic rocks  
(light gray granitic rocks composed of about 80% quartz, 10% feldspar, and 10% or less accessories, mostly biotite and hornblende)  
gr-dike complex (feldspar mostly K-feldspar)  
gr-granite (feldspar mostly K-feldspar)  
gr-quartzite (feldspar mostly K-feldspar)  
gr-gneiss (feldspar mostly K-feldspar)  
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gr-quartzite (feldspar mostly K-feldspar)  
gr-gneiss (feldspar mostly K-feldspar)
- hd**  
Hornblende diorite  
(dark gray dioritic rock composed of hornblende and plagioclase)
- ms**  
Metamorphic rocks  
ms-schist-quartzite, some quartzite  
ms-quartzite, some schist-quartzite  
ms-biotite and hornblende

- Qg**  
Surficial sediments  
Qg-river gravel and sand  
Qa-alluvium
- Qls**  
Landslide debris
- Qoa**  
Dissected surficial deposits  
Qoa-older alluvium  
Qoa3-youngest, lowest  
Qoa2-older, higher
- UNCONFORMITY**
- Qts**  
Santa Clara Formation  
(San Benito gravels of Wilson, 1943; weakly consolidated gravel, sand, silt and clay)
- LOCAL UNCONFORMITY**
- Tn**  
**Te**  
Sedimentary rocks  
(weakly consolidated terrestrial to marine sedimentary rocks)  
Tn-mostly terrestrial greenish claystone, minor sandstone  
Te-Etchequin Formation, marine to brackish-marine light brown sandstone, minor siltstone
- UNCONFORMITY**
- Ttp**  
**Ttm**  
Marine sedimentary rocks  
Ttp-sandstone (Tres Pinos Sandstone of Wilson, 1943; early or middle Eocene)  
Ttm-clay shale (Los Muertos Shale of Wilson, 1943; early Eocene or Paleocene); si-siliceous shale
- Kps**  
**Kp**  
Panoche Formation  
Kps-marine sandstone, minor micaceous shale, late Cretaceous  
Kp-clay shale

- Contact**  
Dashed where gradational or approximately indicated
- Fault**  
Dashed where doubtful  
Dotted where concealed  
Dashed with arrow side relative to movement  
Dashed with arrows indicate horizontal movement
- Articline**  
Axis of fold, showing direction of plunging
- Horizontal**  
**Inclined**  
**Vertical**  
**Overturned**  
Strike and dip of strata
- Strike of foliation**  
Test hole  
Depth in feet

- INDEX TO SOURCE OF GEOLOGY**  
1. After Ross, 1972  
2. T.W. Dibblee Jr. fieldwork, 1973

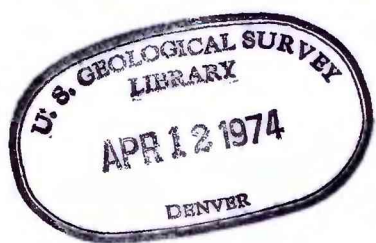
**References:**  
Wilson, I.F., 1943, Geol. of the San Benito quadr., Calif.; Calif. Jour. Mines and Geol., State Min. Rpt. 39, n. 2, p.180-270, pl.3.  
Ross, D.C., 1972, Geol. Map of the pre-Cenozoic basement rocks, Gabilan Range, Monterey and San Benito Counties, Calif. U.S.G.S. Misc. Field Studies Map MF-357, scale-1:250,000

**INDEX TO 7 1/2 MINUTE QUADRANGLE BASE MAPS**  
SCALE 1:24,000



COMPILED BY THOS. W. DIBBLEE JR., 1973

74-1021 MAP OF THE GONZALES QUADRANGLE, CALIFORNIA  
GEOLOGY BY T.W. DIBBLEE JR. AND D.C. ROSS



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

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