

DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

REDWOOD CITY (JUNG. U.S. 10) 20 MI. 4 MI. TO CALIF. 5 10 MI. TO U.S. 101 SARATOGA 2.3 MI. 1.9 MI. TO CUPERTINO 6.5 MI. TO U.S. 101 SARATOGA 0.9 MI.



- Qls**  
Landslide and mudflow debris
- Qoa**  
Older alluvium
- UNCONFORMITY**
- Tlo**  
Lompico Sandstone  
Marine arkosic sandstone  
Relizian and/or Lousian Stage
- UNCONFORMITY**
- Tl**  
Lambert Shale
- Marine semi-siliceous shale and siltstone; Saucesian Stage
- Tvq**  
Vaqueros Sandstone  
Marine arkosic sandstone; minor siltstone; Saucesian and Zemorrian Stages
- Tb**  
Basalt and diabase flows and sills
- Tz**  
Zayante Sandstone
- Nonmarine arkosic sandstone, siltstone and conglomerate
- Tsl** **Tsr**  
**Tst**  
San Lorenzo Formation  
Tsl, siltstone and micaceous shale, undivided  
Tsr, Rices Mudstone Member mudstone and siltstone; contains glauconitic sandstone at and near base; Zemorrian and Refugian Stages  
Tst, Twobar Shale Member bedded micaceous shale and claystone; minor thin sandstone strata; Narizian Stage
- Tbs** **Tbu**  
**Tbc**  
Butano Sandstone  
Tbs, arkosic sandstone, minor interbedded micaceous shale  
Tbu, micaceous shale, minor thin sandstone strata  
Tbc, arkosic sandstone and conglomerate

- Qls**  
Landslide debris
- Qoa**  
Older alluvium
- UNCONFORMITY**
- QTS**  
Santa Clara Formation  
Weakly indurated valley gravel, sand and clay
- UNCONFORMITY**
- TKsh**  
Marine Shale  
Micaceous dark gray shale; minor thin sandstone strata
- db**  
Diabase-gabbro  
Fine to coarse grained
- sp**  
Serpentine
- fg fs fc**  
Franciscan rocks  
Pervasively sheared weakly metamorphosed marine sedimentary and volcanic rocks  
fg, greenstone, metam. from basalt  
fs, graywacke sandstone and argillite; intensely sheared; includes scattered chert lenses; and shear zones (melange)  
fc, chert

**Notes**

Only a few of the larger landslides are shown. See Cooper Clark and Associates (1975) for a more complete map of landslides in Santa Cruz County, and the maps by Sorg and McLaughlin (1975), Cotton (1977), and Rogers (1971) for landslides in Santa Clara County.

For fault hazards, see maps by Hall and others (1974) and Sarna and others (1975).

Geology compiled partly from Burchfiel (1958), Hector (1976), Rogers (1971), Cotton and Associates (1977), Sorg and McLaughlin (1975), and McCollum (1959).

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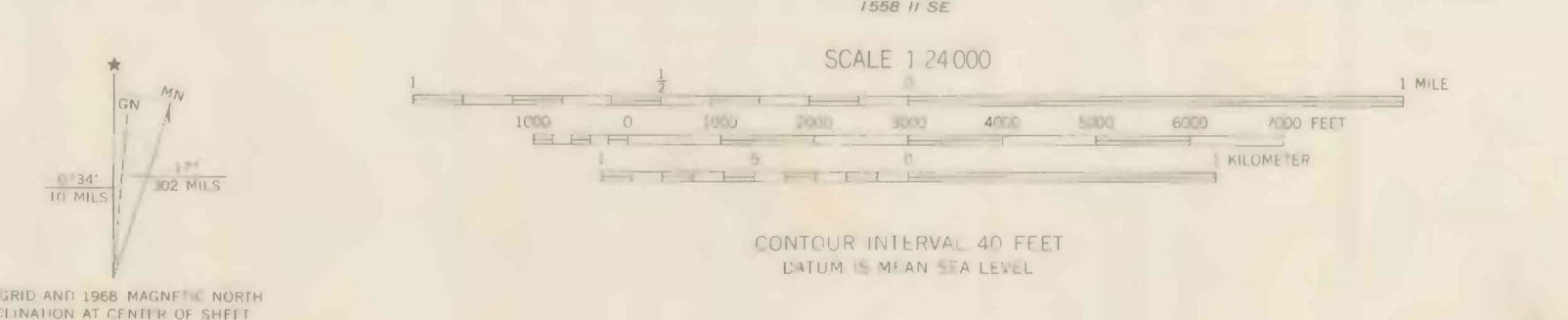
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This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.



PRELIMINARY GEOLOGIC MAP OF THE CASTLE ROCK RIDGE QUADRANGLE, SANTA CRUZ AND SANTA CLARA COUNTIES, CALIFORNIA

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