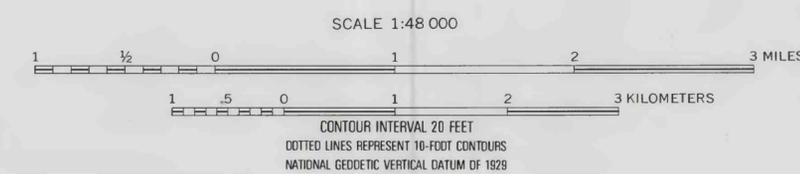
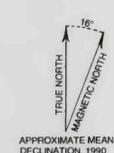


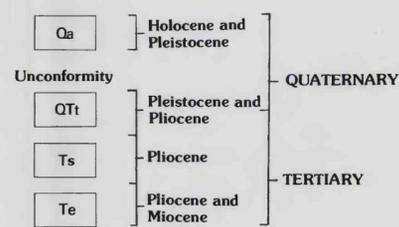
Base from U.S. Geological Survey 1:24,000, Coalinga 1956, photorevised 1971 (topography from aerial photographs taken in 1953 and from planetable surveys in 1956) and Gujarral Hills 1956, photorevised 1971 (topography from aerial photographs taken in 1955 and from planetable surveys in 1956)



INTERIOR—GEOLOGICAL SURVEY, RESTON, VA.—1990—M880680
Geology slightly modified from Dibblee (1971)



CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

Qa Alluvium (Holocene and Pleistocene)—Unconsolidated alluvial-fan deposits
QTt Tulare Formation (Pleistocene and Pliocene)—Moderately consolidated continental deposits, chiefly alluvial
Ts San Joaquin Formation (Pliocene)—Marine sedimentary rocks

- Contact
- Strike and dip of bedding
- Axis of plunging anticline—Dashed where approximately located, dotted where concealed by or poorly expressed in Holocene alluvium. Anticline, shown by Dibblee (1971) as two plunging anticlines separated by alluvium along Los Gatos Creek, is here shown as a single structure consistent with subsurface contours on top of the Eocene Kreyenhagen Formation (see chap. 4). Anticlinal axis, here equated with structural crest, is slightly west of axial plane because, as shown by Fielding and others (1984), the Coalinga anticline is superimposed on an east-dipping homocline
- Contour of uplift inferred to have occurred during the May 2 earthquake—Location very approximate. Contour interval, 0.2 m. Redrawn from Eaton (1985, fig. 2E, p. 246).
- 17 Measured stratigraphic section
- RL-1 Seismic-refraction line
- ▽ AH-2 Hand-auger hole—Log at lower right
- Cross section shown in plate 15.2

Width and orientation of "Arroyo Las Gatas" (Los Gatos Creek) and tributaries as measured at section lines in 1853 or 1854—From plats of township-subdivision surveys conducted for the U.S. General Land Office. Inner paired lines show width as described in field notes where appreciably different from that shown on plat. W, water in arroyo, according to plat (near mouth of Jacalitos Creek only). Single dashed line with arrow denotes narrow gully

*H1196 Geodetic bench mark—showing alphanumeric designation and coseismic change in elevation—Elevation change (in meters) is based chiefly on comparison of second-order leveling done in 1972 with first-order leveling done in 1983, and adjusted in most cases for fluid-withdrawal subsidence extrapolated from a comparison of 1966 and 1972 elevations (from Stein, 1985). Plus sign, uplift; minus sign, subsidence

—0.01 Adjustment for fluid-withdrawal subsidence well constrained

—0.02 Adjustment for fluid-withdrawal subsidence poorly constrained owing to exclusion of bench mark from 1966 or earlier networks—Range of coseismic uplift inferred for triad of bench marks in northwestern part of Gujarral Hills expresses uncertainty in this adjustment rather than differences among bench marks

LOGS OF HAND-AUGER HOLES SOUTHWEST OF GUIJARRAL HILLS

| Hole No. | Thickness | Description |
|----------|-----------|--|
| AH-4 | 0.5 m | Silt |
| | 1.3 m | Clayey silt, 25Y 5/5 |
| | 0.5 m | Silty very fine sand, 2.5Y 4/4 |
| AH-5 | 0.3 m | Sandy silt, clayey?, 2.5Y 4/4 |
| | 1.7 m | Very fine and fine sand, well sorted and possibly eolian, containing abundant lithic grains suggestive of a Coast Range provenance |
| | 0.1 m | Clayey silt, 2.5Y 5/4 |
| AH-8 | 0.1 m | Fine to medium sand, well sorted |
| | 0.6 m | Coarse silt, well-sorted, 2.5Y, with two interbeds of clayey silt |
| | 0.6 m | Silt, poorly sorted, 2.5Y 4/4 |
| | 0.3 m | Very fine sand, well sorted |
| | 0.4 m | Silt, poorly sorted |
| | 0.5 m | Sand, very fine, grading down |