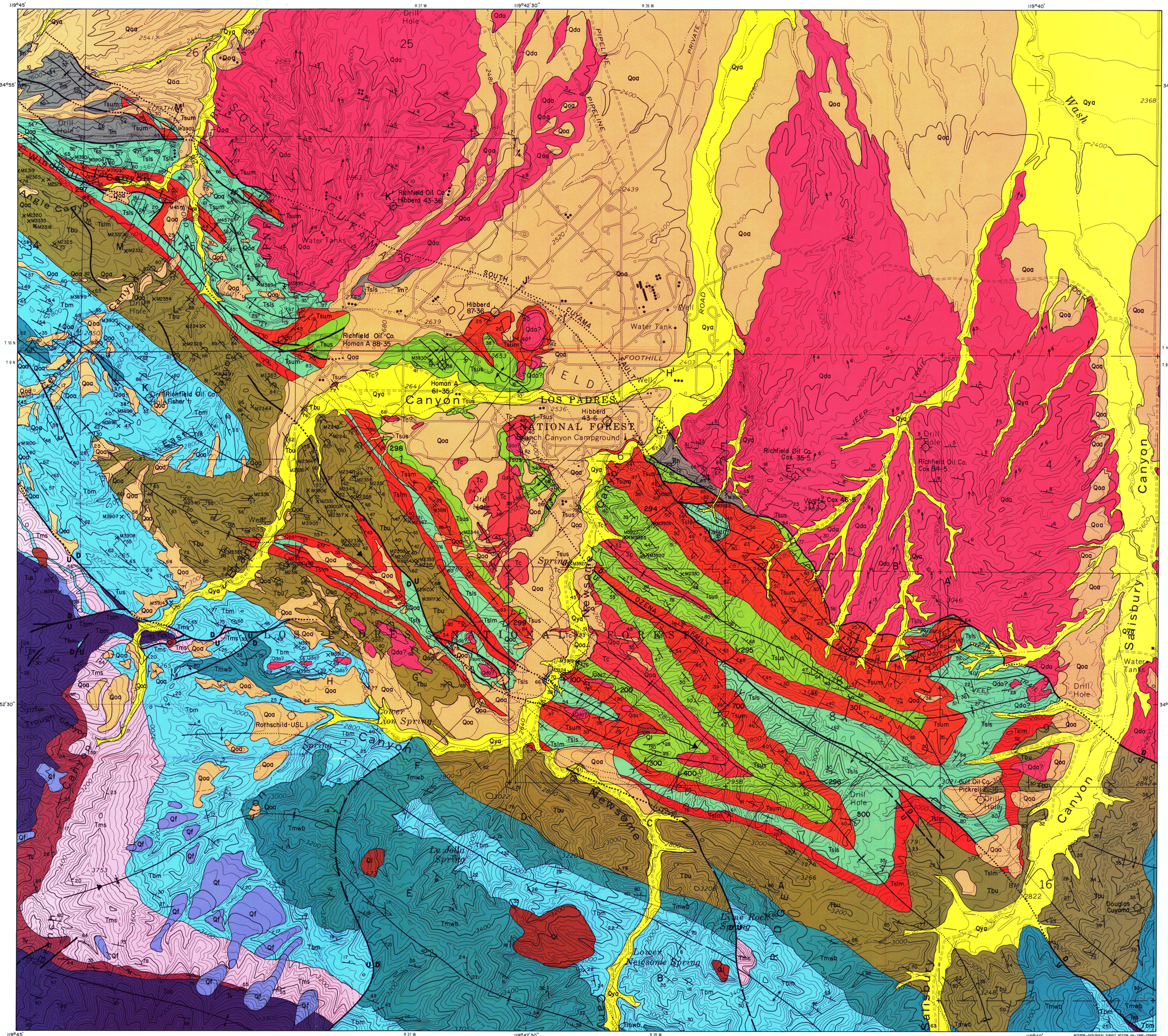
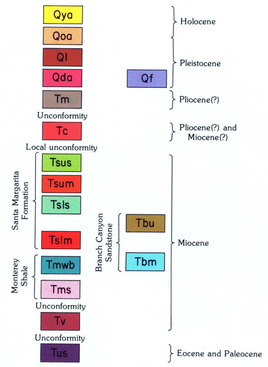


CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- **Qya** YOUNGER ALLUVIUM (HOLOCENE)
- **Qoa** OLDER ALLUVIUM (HOLOCENE AND PLEISTOCENE)
- **Ql** LANDSLIDE DEPOSITS (PLEISTOCENE)
- **Qda** DEFORMED ALLUVIAL DEPOSITS (PLEISTOCENE)
- **Qf** FAN DEPOSITS (PLEISTOCENE)
- **Tm** MORALES(?) FORMATION (PLIOCENE?)
- **Tc** CALIENTE(?) FORMATION (PLIOCENE? AND MIOCENE?)
- SANTA MARGARITA FORMATION (MIOCENE)—Divided into:
  - **Tsus** Upper sandstone member
  - **Tsum** Upper phosphatic mudstone member
  - **Tsls** Lower sandstone member
  - **Tslm** Lower phosphatic mudstone member
- MONTEREY SHALE (MIOCENE)—Divided into:
  - **Tmwb** Whiterock Bluff Shale Member
  - **Tms** Saltos Shale Member
- BRANCH CANYON SANDSTONE (MIOCENE)—Divided into:
  - **Tbu** Upper sandstone member
  - **Tbm** Mudstone and lower sandstone members, undivided
- **Tv** VAQUEROS FORMATION (MIOCENE)
- **Tus** UNNAMED SEDIMENTARY ROCKS (EOCENE AND PALEOCENE)

CONTACT—Approximately located. Dotted where concealed

FAULT—Dashed where inferred; dotted where concealed; queried where doubtful. D, downthrown side; U, upthrown side. Arrows show direction of relative movement

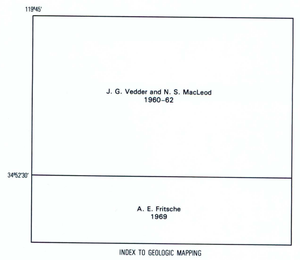
FOLDS—Showing axis of fold and direction of plunge. Dotted where concealed

- Anticline
- Syncline

STRIKE AND DIP OF BEDS

- 30 Inclined
- Inferred
- Vertical
- 70 Overturned
- 5 Apparent dip

- ABANDONED WELL—Drilled for oil and gas
- Mf MICROFOSSIL LOCALITY
- M3904 MEGAFOSSIL LOCALITY AND NUMBER
- 295 EXPLORATORY TRENCH AND NUMBER
- 500 OFFSET EXPLORATORY TRENCH AND NUMBER
- R-1 STRATIGRAPHIC SECTION
- A—A' CROSS SECTION LINE



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GEOLOGIC MAP OF THE CUYAMA VALLEY PHOSPHATE AREA, SANTA BARBARA COUNTY, CALIFORNIA