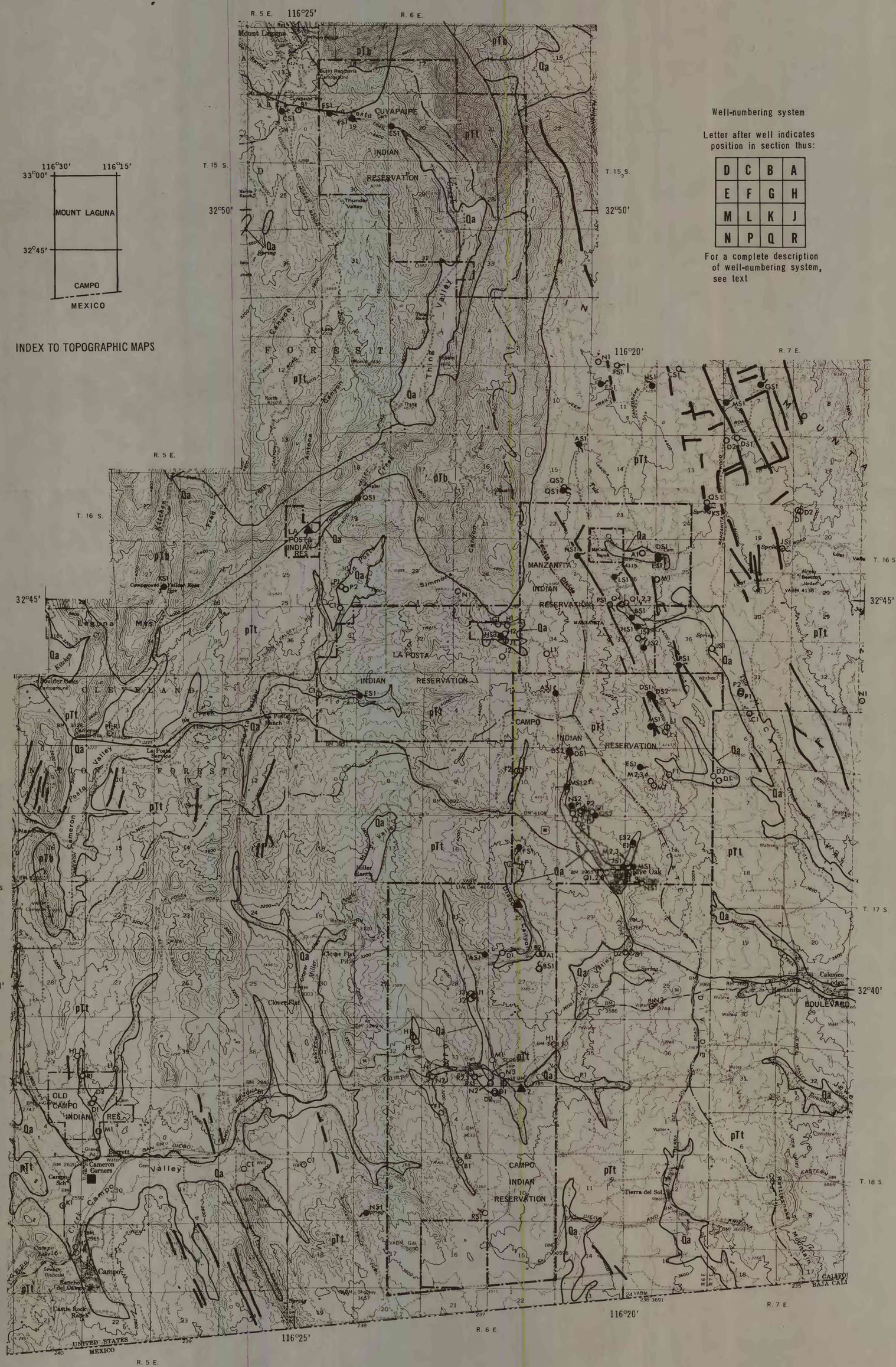
(200)
R290
no.77-684






INDEX TO TOPOGRAPHIC MAPS




Well-numbering system

Letter after well indicates position in section thus:

| | | | |
|---|---|---|---|
| D | C | B | A |
| E | F | G | H |
| M | L | K | J |
| N | P | Q | R |

For a complete description of well-numbering system, see text

## CORRELATION OF MAP UNITS

| | | | |
|---|---|---|---|
| Qa | Holocene | Quaternary | Cenozoic |
| pTt | Cretaceous | | Mesozoic |
| pTb | | | |

## DESCRIPTION OF MAP UNITS

**Qa** ALLUVIUM (Quaternary) - Sand, gravel, silt, and clay beneath small stream channels and alluvial valleys. Varies in thickness from a few feet to about 100 feet. Generally, yields small to moderate quantities of water

**pTt** TONALITE (Cretaceous) - Igneous rocks comprising Bonsall Tonalite, Lakeview Mountain Tonalite, and Green Valley Tonalite, all of Cretaceous age. These rocks will yield small to moderate quantities of water where highly fractured or where deeply weathered

**pTb** BASEMENT COMPLEX - Igneous and metamorphic rocks comprising Woodson Mountain Granodiorite and San Marcos Gabbro of Cretaceous age, the Stonewall Quartz Diorite of Jurassic (?) age, and the Julian Schist of Triassic (?) age or older

## EXPLANATION

- CONTACT
- FAULT OR FRACTURE
- SURFACE-WATER DRAINAGE DIVIDE
- WELL
- DRY OR DESTROYED WELL
- FLOWING SPRING
- DRY SPRING
- SURFACE-WATER SAMPLING SITE--Streamflow measurement or water sample for chemical analysis
- PRECIPITATION STATION

TRUE NORTH
MAGNETIC NORTH
14½°

APPROXIMATE MEAN DECLINATION 1970

SCALE 1:62,500

1 ½ 0 1 2 3 4 MILES

3000 0 3000 6000 9000 12000 15000 18000 21000 FEET

1 .5 0 1 2 3 4 5 KILOMETERS

CONTOUR INTERVAL 40 and 80 FEET

DATUM IS MEAN SEA LEVEL

# MAP OF CAMPO, CUYAPAIPE, LA POSTA, AND MANZANITA INDIAN RESERVATIONS AND VICINITY, SAN DIEGO COUNTY, CALIFORNIA

## Showing geology and location of wells, springs, precipitation station, and surface-water sampling sites

Base from U.S. Geological Survey Mount Laguna and Campo topographic maps, 1:62,500

Geology compiled and modified by W. R. Moyle, Jr. from unpublished maps by R. H. Merriam in 1955 and published maps by F. H. Olmsted(1953)