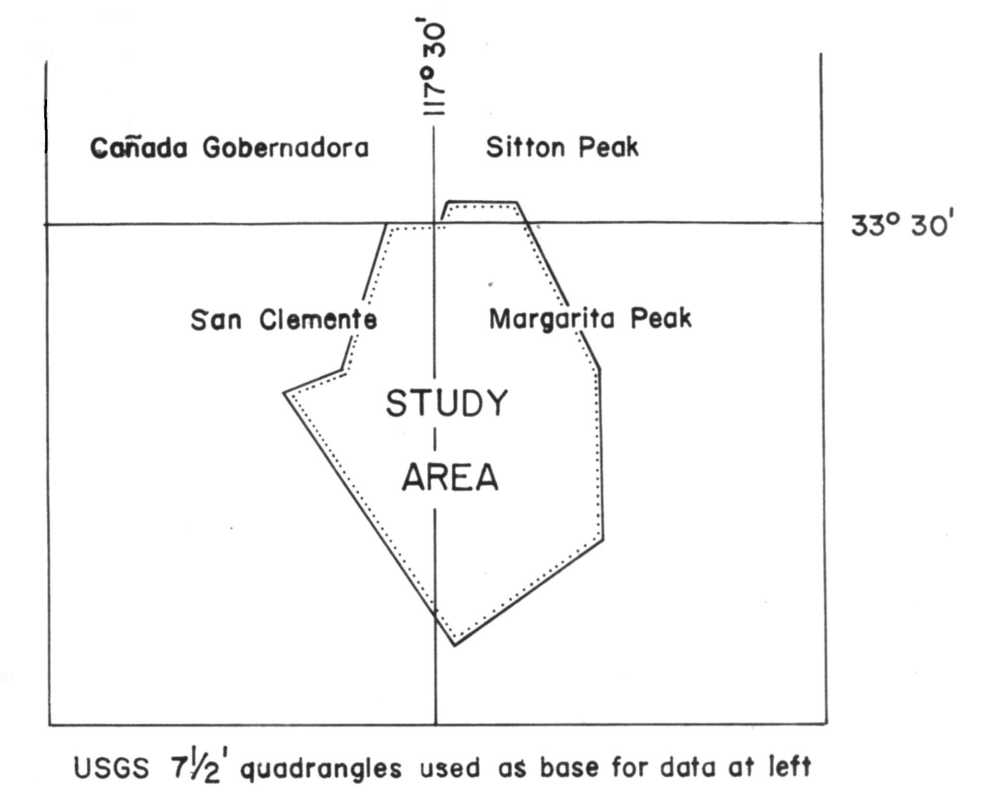
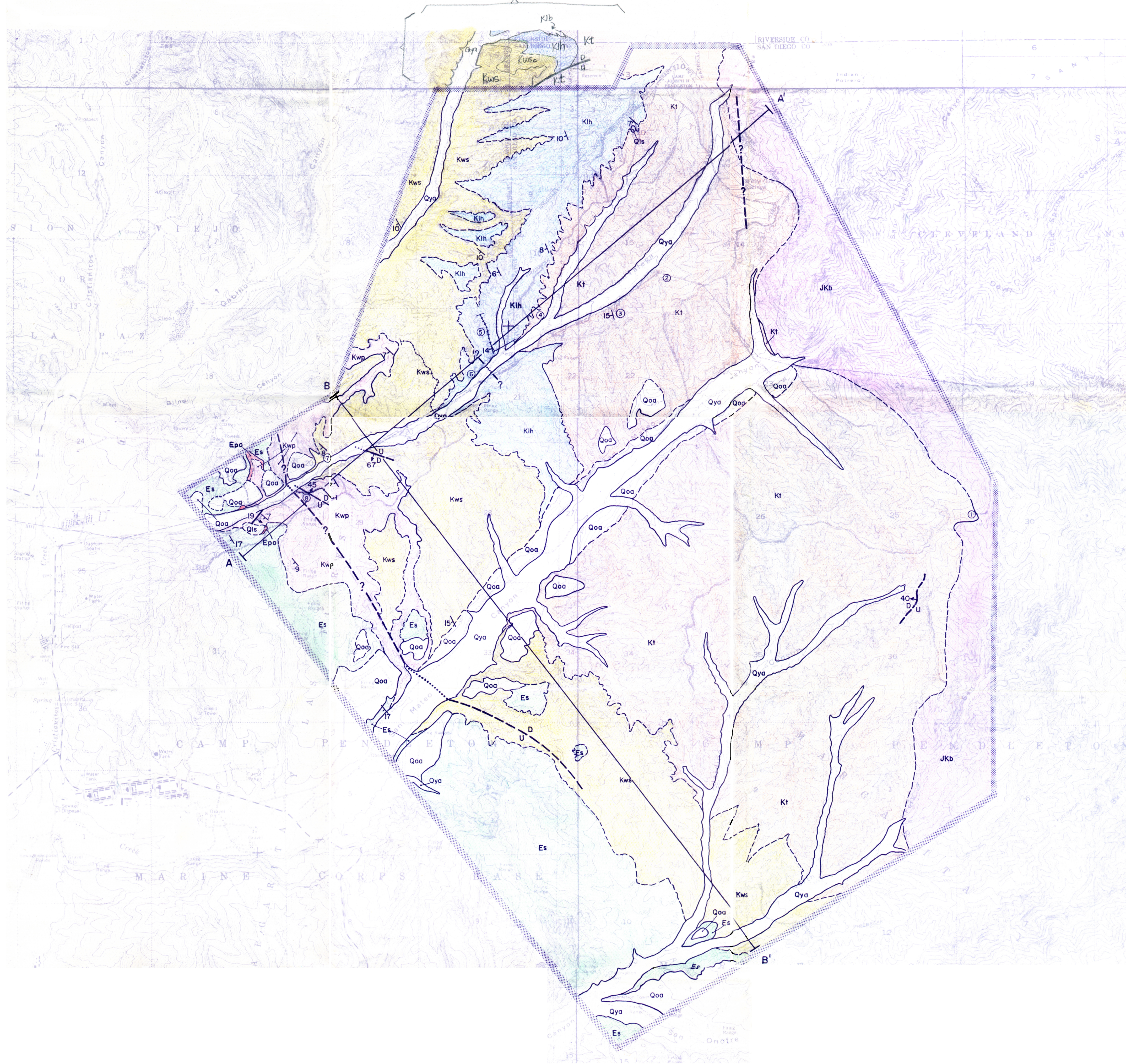


PLATE I

GEOLOGY OF THE NORTHERN CORNER OF CAMP PENDLETON

Mapping by Roth (1958)



USGS 7 1/2' quadrangles used as base for data at left

UNITS

Qls
landslide material

Qya
younger alluvium
active, bouldery, streambed gravel

Qoa
older alluvium
fluvial terrace: reddish, bouldery gravel

Es
Santiago Formation
white sandstone; mudstone

Epo
oxisol
gravelly clay

Kwp
Williams Formation, Pleasants Sandstone Member
alternating sandstone and mudstone

Kws
Williams Formation, Schulz Ranch Sandstone Member
lensoidal conglomerate and sandstone

Kih
Ladd Formation, Holz Shale Member
mudstone, lensoidal conglomerate and sandstone

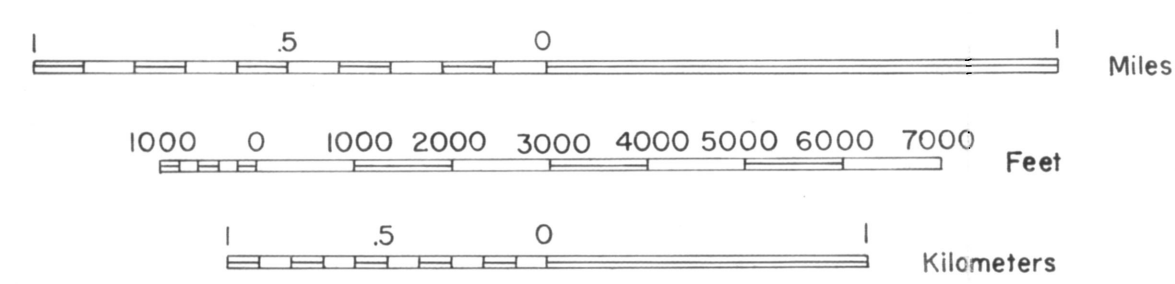
Kt
Trabuco Formation
fanglomerate

JKb
basement, undivided
mildly metamorphosed extrusives of the Santiago Peak
Volcanics, intruded by small granitoid bodies of the
Peninsular Ranges batholith

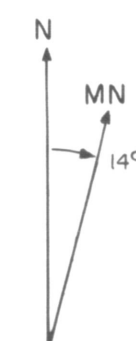
SYMBOLS

- Lithologic contact, dashed where approximate
- Fault, with dip and sense of displacement where known; dashed where approximate, dotted where concealed, queried where existence uncertain
- Attitude of bedding
- Measured section
- Cross section
- Sample location
- Firebreak
- Power transmission line; tower

SCALE 1:24,000



Contour interval: 40' on Sifton Peak Quadrangle, 20' on all others



GEOLOGY AND LATE CRETACEOUS DEPOSITIONAL ENVIRONMENTS IN THE NORTHERN
CORNER OF CAMP PENDLETON, SOUTHERN CALIFORNIA

FRANK J. GROFFIE 1985