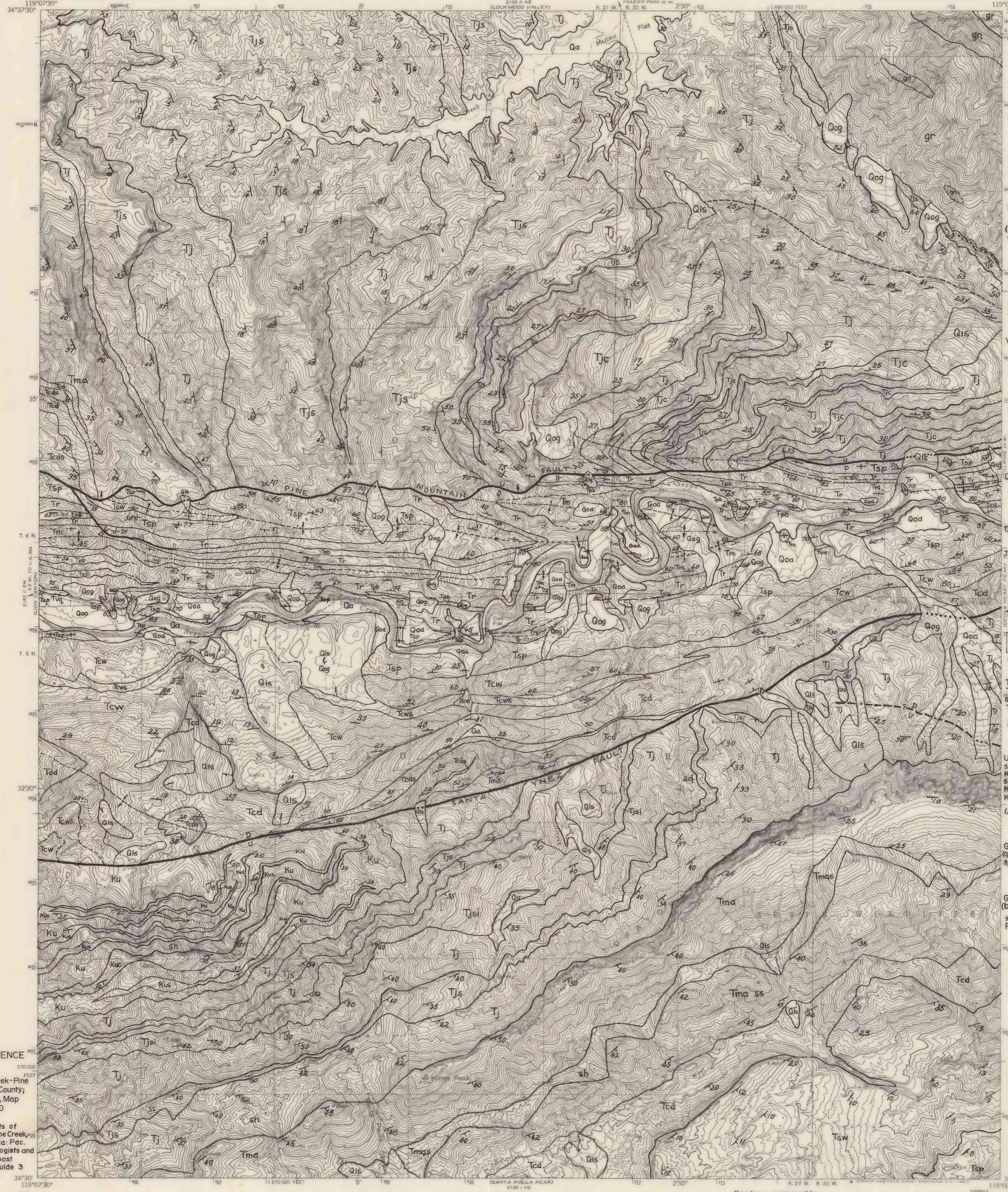
OPEN-FILE REPORT
79-1464
SHEET 4 of 4

PREPARED IN COOPERATION WITH LOS PADRES NATIONAL FOREST
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SE/4 of Hines Peak 15' Quad.
TOPATOPA MOUNTAINS QUADRANGLE
CALIFORNIA—VENTURA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Explanation

- Qa — Alluvium, and stream gravels
- Qls — Landslide debris
- Qoa — Dissected older alluvium
- Qog — Dissected boulder gravel

Unconformity

- Tm — Monterey Shale (marine) silicious shale (Relizian-Sauc. age)
- Tr (Tpb) — Rincon Shale (marine) Tr - clay shale Tpb - Piedra Blanca Sandstone Member *
- Tvq — Vaqueros Formation (marine) fossiliferous finegrained sandstone and siltstone
- Tsp — Sespe Formation (terrestrial) red beds, basal conglomerate

Unconformity

- Tcw (Tcws) — Coldwater Sandstone (marine) Tcw - sandstone Tcws - siltstone
- Tcd (Tcds) — Cozy Dell Shale (marine) Tcd - shale Tcds - sandstone
- Tma (Tmas) — Matilija Sandstone (marine) Tma - sandstone Tmas - shale
- Tj (Tjs, Tjsi, Tjc) — Juncal Formation (marine) Tj - shale Tjs - sandstone Tjsi - interbedded sandstone & shale Tjc - conglomerate & sandstone

Unconformity

- Ku (Kus, Kuc) — Unnamed marine strata Ku - dark grey shale Kus - sandstone Kuc - conglomerate

Unconformity

- gr — Granitic rocks (quartz monzonite to granodiorite)
- gn — Gneiss (biotite gneiss)

Holocene ?—? Pleistocene — QUATERNARY
Miocene — Oligocene ? — Eocene — TERTIARY
Upper — CRETACEOUS
MESOZOIC OR OLDER

*See Fritsche 1978, P. 28, 29.

SYMBOLS

Contact
shown dashed where gradational or approximately located

Fault
shown dashed where inferred or approximately located; dotted where concealed; U - upthrown block; D - downthrown block, relatively; parallel arrows indicate relative horizontal slip, single arrow indicates dip of fault plane

Anticline — Syncline

Axis of fold
arrow on axis indicates direction of plunge
30 inclined
vertical
70 overturned

Strike & dip of bedding
numbers indicate amount of dip in degrees

General direction of landslide movement

Sandstone bed

Conglomerate bed

PERTINENT REFERENCE

Merrill, W.R., 1954, Geology of the Sespe Creek-Pine Mountain area, Ventura County; Calif. Div. Mines Bull. 170, Map sheet 3, scale 1:125,000

Fritsche, A.E., 1978. Depositional Environments of Tertiary rocks along Sespe Creek, Ventura County California: Pac. Sec. Soc. Econ. Paleontologists and Mineralogists, Pacific Coast Paleogeography field guide 3

SCALE 1:24000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1943 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Geology mapped by
T. W. Dibblee, Jr., 1946
drafted by E. J. Wiedmann, 1979

ROAD CLASSIFICATION
Unimproved dirt — Trails

QUADRANGLE LOCATION

TOPATOPA MOUNTAINS, CALIF.
N3430—W11900/7.5
1943
AMS 2153 II SE—SERIES V895

U. S. Geological Survey
OPEN-FILE REPORT
This report is preliminary and has not been edited or reviewed for conformity with Geological Survey Standards and nomenclature

GEOLOGIC MAP OF THE TOPATOPA MOUNTAINS QUADRANGLE, CALIFORNIA

By Thomas W. Dibblee, Jr.

1979