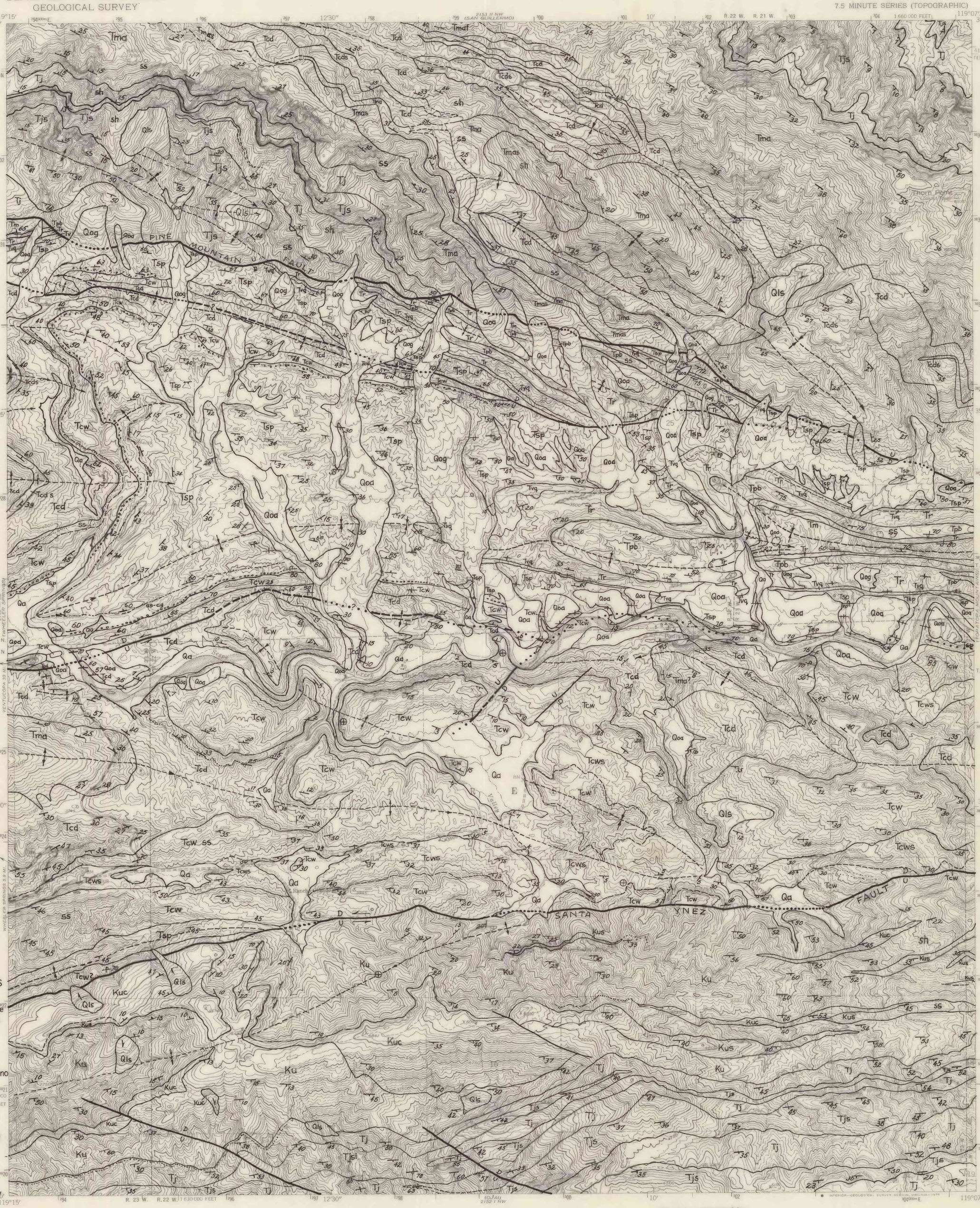
OPEN-FILE REPORT
79-1464
SHEET 1 of 4

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

SW/4 of Hines Peak 15' Quad.
LION CANYON QUADRANGLE
CALIFORNIA—VENTURA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



QUATERNARY

Holocene

Qa — Alluvium including stream gravels

Qls — Landslide debris

Pleistocene

Qoa / Qog — Older alluvium or terrace gravel
Qoa - lower terrace gravel
Qog - higher, older terrace gravel
Unconformity

TERTIARY

Miocene

Tm — Monterey Shale (marine siliceous shale) Relizian and Saucesian stages

Tr / Tpb — Rincon Shale marine, Saucesian and up. Zemorrian stages
Tr - gray clay shale and Siltstone
Tpb - Piedra Blanca Sandstone Member * gray-white cross-bedded sandstone

Tvq — Vaqueros Form. marine sandstone and siltstone, thin calcareous beds, Zemorrian stage

Oligocene

Tsp — Sespe Formation nonmarine buff to pink sandstone, red clays and red basal conglomerate

Eocene

Tcw / Tcws — Coldwater Sandstone marine, Narizian stage
Tcw - sandstone
Tcws - sandstone and siltstone

Tcd / Tcds — Cozy Dell Shale marine
Tcd - shale
Tcds - sandstone

Tmaf / Tma / Tmas — Matilija Sandstone marine
Tmaf - fine grain sandstone
Tma - sandstone
Tmas - shale

Tj / Tjs / Tjsi — Juncal Formation marine
Ulatisian stage, mid Eo.
Tj - clay shale, minor thin sandstone strata
Tjs - sandstone, minor interbedded shale
Tjsi - sandstone & shale

CRETACEOUS

Upper

Ku / Kuc / Kus — Unnamed marine strata
Kuc - cobble conglom.
Ku - gray-black shale
Kus - sandstone
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.

Sandstone bed

Conglomerate bed

Anticline **Syncline** Axis of fold
Arrow on axis indicates direction of plunge
horizontal
inclined
vertical
overturned
Strike & dip of bedding
numbers indicate amount of dip in degrees
General direction of landslide movement

PERTINENT REFERENCES

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

Vedder, J.G., Dibblee, T.W. Jr. and Brown, R.D. Jr., 1973 Geologic map of the upper Mono Creek-Pine Mountain area, California, U.S. Geol. Survey Misc. Inv. Map I-752, scale 1:48,000

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
CONTOUR INTERVAL 50 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UTM GRID AND 1943 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Geology mapped by T. W. Dibblee, Jr., 1946, 1968
drafted by E. J. Wiedmann, 1979

ROAD CLASSIFICATION
Medium-duty — Unimproved dirt
U. S. Route

LION CANYON, CALIF.
N3430—W11907.5/7.5
1943
AMS 2153 II SW—SERIES V895
PHOTOINSPECTED 1971

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 LION CANYON QUADRANGLE, CALIFORNIA

By Thomas W. Dibblee, Jr.

1979