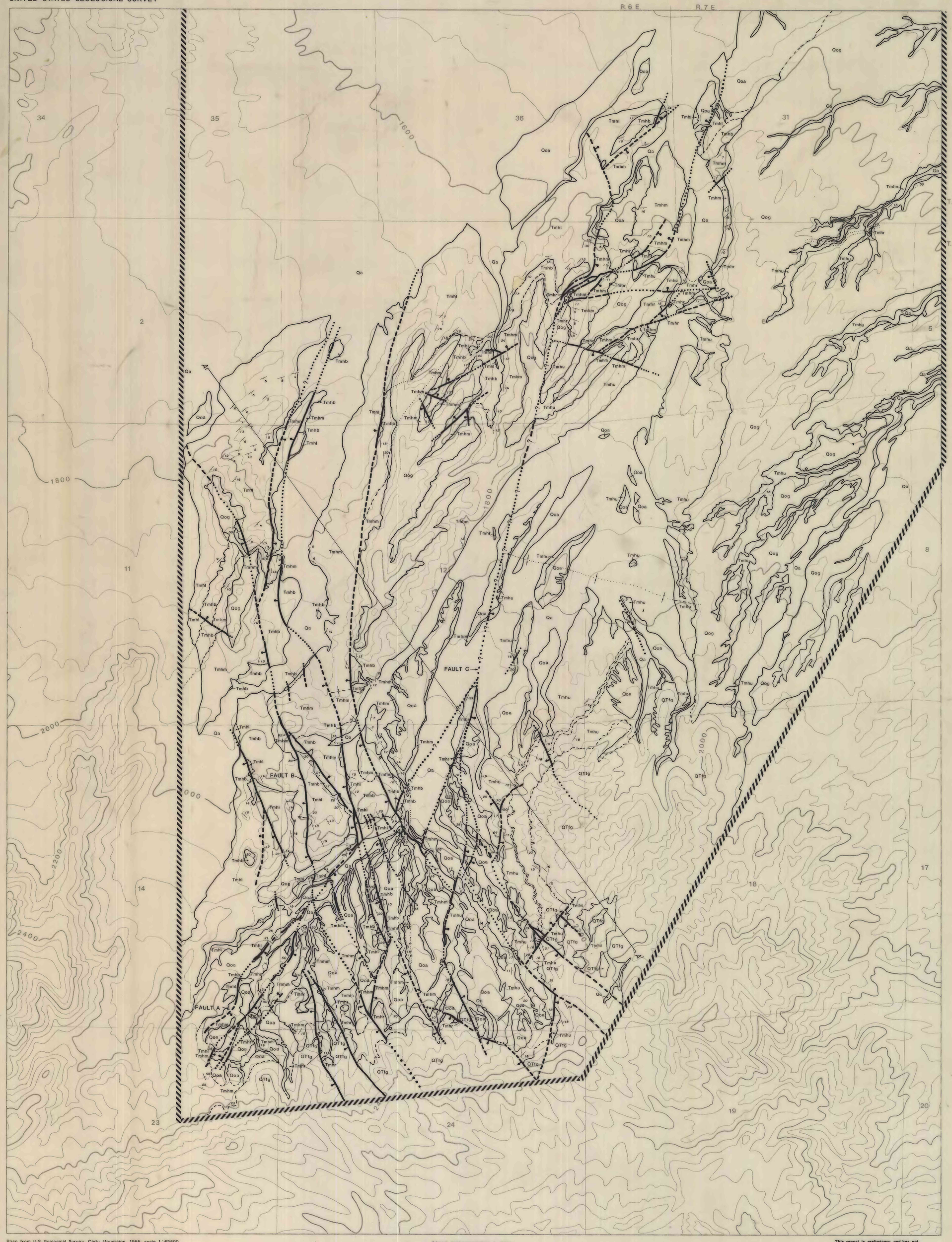
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

OPEN-FILE REPORT 80-878
1980
PLATE I



Base from U.S. Geological Survey, Cady Mountains, 1955, scale 1:62500

SCALE APPROXIMATELY 1:8000

0 0.5 1 miles

0 0.5 1 1.5 kilometers

CONTOUR INTERVAL 40 FEET
Datum is mean sea level

N
15½°
True North
Magnetic North

This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey standards.

CORRELATION OF MAP UNITS

Qa	Holocene and Pleistocene?	QUATERNARY
UNCONFORMITY		
Qoa	Pleistocene?	QUATERNARY
UNCONFORMITY		
Qog	Pleistocene?	QUATERNARY
UNCONFORMITY		
QTfg	Pleistocene and (or) Pliocene	QUATERNARY AND (OR) TERTIARY
UNCONFORMITY		
Tmhu	Middle Miocene	TERTIARY
Tmhr		
Tmhm		
Tmhb		
Tmhl		

DESCRIPTION OF MAP UNITS

Qa — YOUNGER ALLUVIUM (Quaternary)—Unconsolidated silt, sand and gravel in stream channels and on adjacent low-lying terraces and overflow channels

Qoa — OLDER ALLUVIUM (Quaternary)—Weakly consolidated, crudely bedded, sand and pebble-cobble gravel capping low terraces and ridges; beds flat lying or dipping at very shallow angles

Qog — OLDER GRAVEL (Quaternary)—Weakly consolidated, crudely bedded pebble-cobble gravel capping ridges in northern and central portions of area

QTfg — FANGLOMERATE AND GRAVEL (Quaternary and (or) Tertiary)—Cross-laminated pebble-cobble-boulder conglomerate, conglomeratic sandstone, fanglomerate and gravel, capping ridges in southern and southeastern portions of area

* HECTOR FORMATION (Tertiary)—Includes:

Tmhu — Upper unit—Unit consists predominantly of tuffaceous sandstone and siltstone, with subordinate limestone, conglomerate and air-fall tuff

Tmhr — Rhyolite ash-flow tuff—Pink and purple, hypocrystalline and vitrophyric, porphyritic, commonly welded, rhyolite ash-flow tuff

Tmhm — Middle unit—Unit consists predominantly of tuffaceous siltstone and sandstone, with subordinate conglomerate, mudrock and air-fall tuff

Tmhb — Basalt—Grayish-black, aphanitic to fine-grained microcrystalline, hypocrystalline to holocrystalline, vesicular to scoriaceous, subophitic and rarely microporphyritic alkali-olivine basalt

Tmhl — Lower unit—Unit consists predominantly of tuffaceous siltstone, sandstone and mudrock, with subordinate conglomerate and air-fall tuff

Contact—Dashed where approximately located, dotted where concealed or inferred, queried where uncertain

Fault—Dashed where approximately located, dotted where concealed or inferred queried where uncertain; arrow in direction of dip. Bar and ball on downthrown side

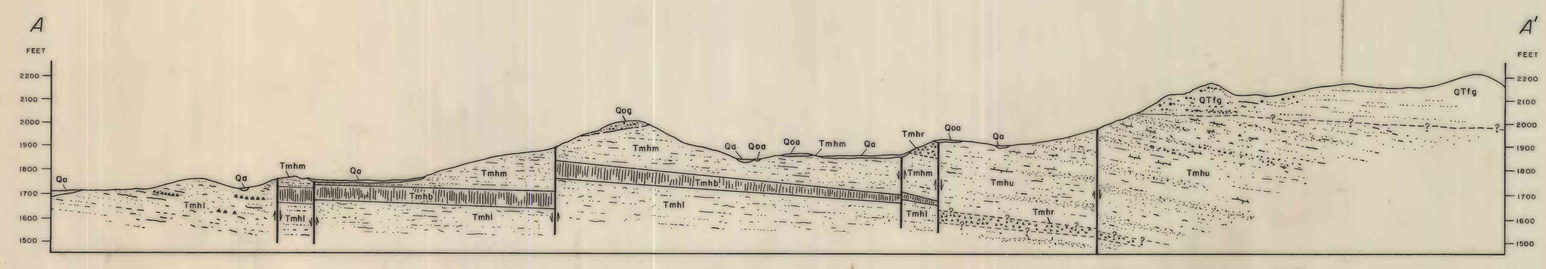
Strike and dip of beds

Inferred syncline; dotted where concealed

Limestone marker bed

Outline of mapped area

* As used by Woodburne, M.O., Tedford, R.H., Stevens, M.S., and Taylor, B.E., 1974, Early Miocene mammalian faunas, Mojave Desert, California: Journal of Paleontology, vol. 48, no. 1, p. 6-26.



Vertical exaggeration approximately 2X horizontal scale

GEOLOGY OF A PORTION OF THE NORTHERN CADY MOUNTAINS, SAN BERNARDINO COUNTY, CALIFORNIA

BY

SUSAN T. MILLER

1980