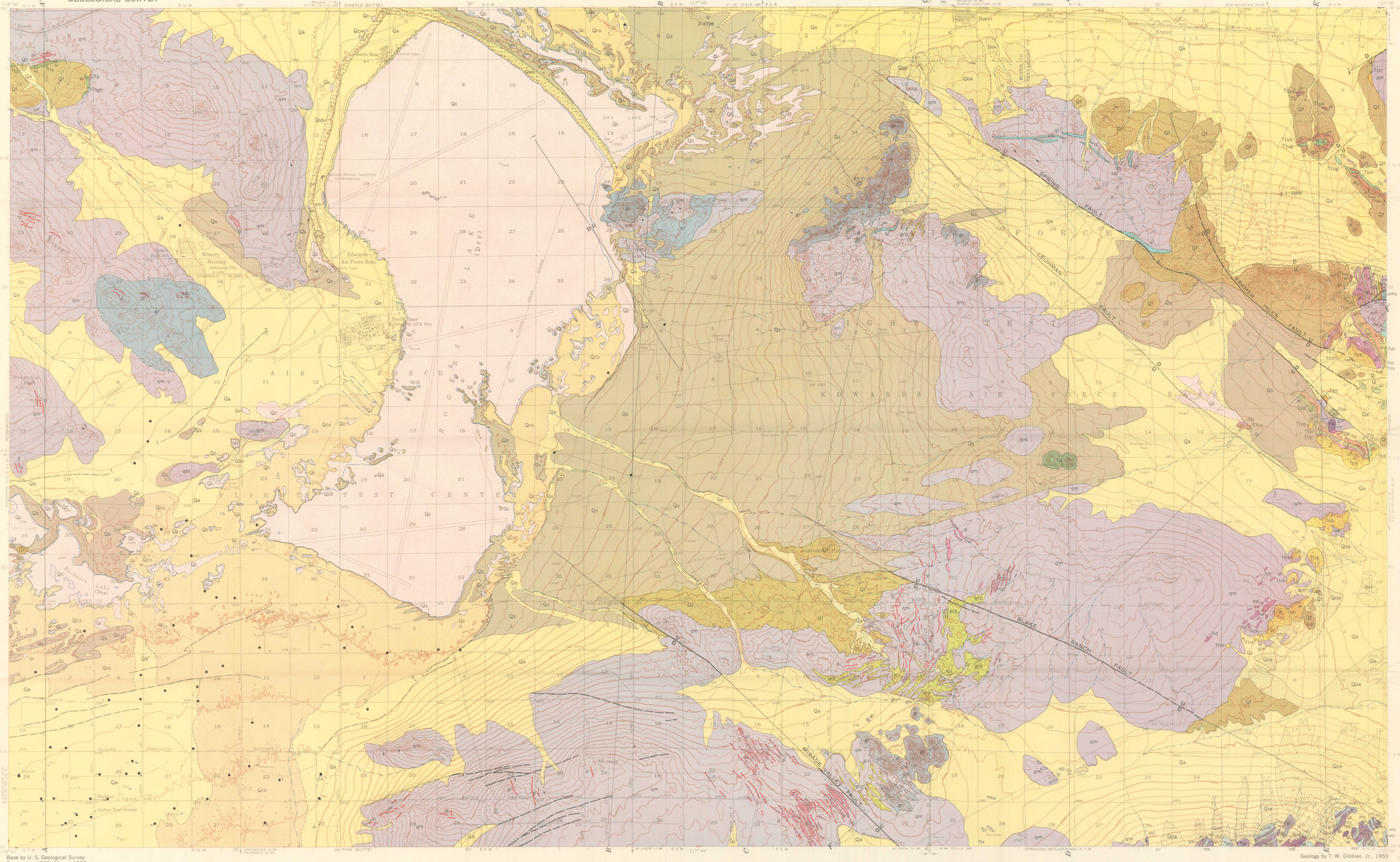


Base by U. S. Geological Survey, Surveyed in 1930–31 and 1937

Geology by T. W. Dibblee, Jr., 1953

EXPLANATION

SEDIMENTARY AND VOLCANIC ROCKS

QUATERNARY

Recent

Qa, Qc, Qcs, Qs, Qsb — **Alluvium**
Alluvial gravel and sand, Qa; *playa clay,* Qc; *playa clay and windblown sand,* Qcs; *windblown sand,* Qs; *wave-deposited sandbars,* Qsb

UNCONFORMITY

Pleistocene

Qoa — **Older alluvium**

UNCONFORMITY

Qf — **Fanglomerate**

UNCONFORMITY

TERTIARY

Miocene(?) to Pliocene(?)

Tropico group

Kramer Hills

Ttus, Ttuc, Ttug — **Upper part**
Sandstone and clay shale, Ttus; *chert,* Ttuc; *granitic breccia,* Ttug

Ttrb — **Red Buttes quartz basalt**

LOCAL UNCONFORMITY

Ttll, Ttlc, Ttlt, Ttls — **Lower part**
Clay shale, Ttlc; *limestone and (or) dolomite, and shale,* Ttll; *sandstone,* Ttlt; *rhyolitic tuff,* Ttlt; *undifferentiated rocks,* Ttl, *shown in sections only*

UNCONFORMITY

Tb — **Olivine basalt**
Flows and sills(?) in Tropico group

Tdv, Td — **Dacite**
Dacite vitrophyre (flow or sill in Tropico group), Tdv; *dacite (intrusive plug forming Haystack Butte),* Td

Bissell Hills

Ttb, Ttgb — **Tropico group**
Bissell formation (limestone and (or) dolomite), Ttb; *Gem Hill formation (rhyolitic tuff),* Ttgb

UNCONFORMITY

DIKE ROCKS

CRETACEOUS OR TERTIARY

ql — **Quartz latite**

PLUTONIC ROCKS

JURASSIC TO CRETACEOUS(?)

gr, grp, p — **Granite**
Granite, gr; *complex of granitic and pegmatite-aplite dikes,* grp; *dikes of pegmatite and aplite,* p

qm — **Quartz monzonite**

hd — **Hornblende diorite**

METAMORPHIC ROCKS

TRIASSIC(?)

mhs — **Hornblende schist**

CARBONIFEROUS(?)

ml, mh, ms, mq — **Oro Grande(?) series of Hershey (1902)**
Limestone and dolomite marble, ml; *Calc-silicate hornfels,* mh; *mica-quartz hornfels and schist,* ms; *quartzite,* mq

60 — **Contact, showing dip**
Dashed where indefinite or gradational; dotted where concealed and inferred

60 U — **Fault, showing dip**
Dashed where indefinite; dotted where concealed and inferred; U, *upthrown side;* D, *downthrown side*

Fault, showing relative strike-slip movement

60 — **Strike and dip of beds**

30 — **Strike and dip of overturned beds**

20 — **Strike of vertical beds**

20 — **Strike and dip of foliation**

Strike of vertical foliation

20 — **Strike and dip of flow laminae and fracture cleavage**

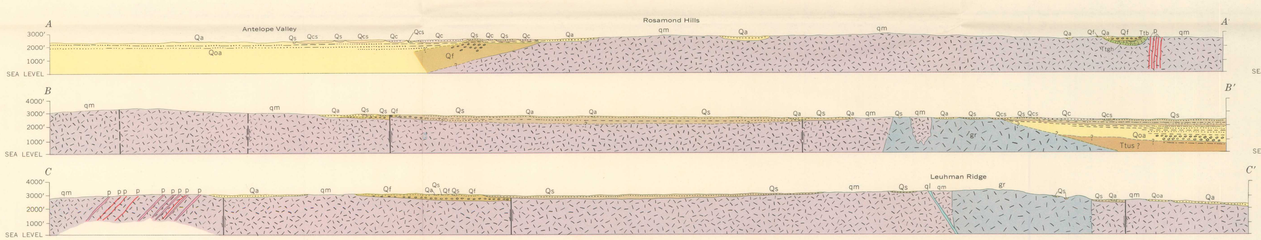
Late Pleistocene shorelines of Lake Thompson

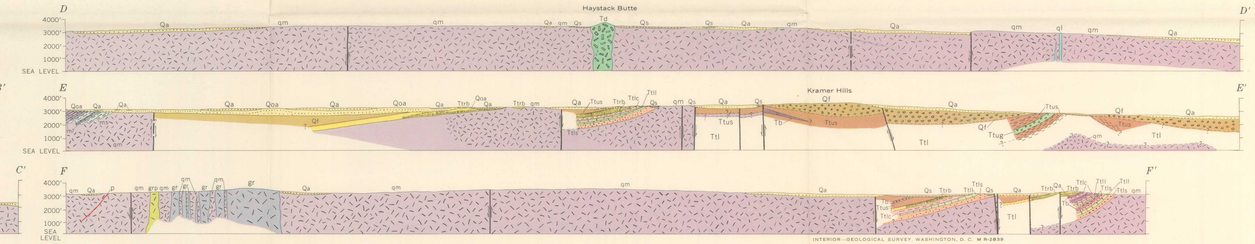
X — **Prospect**

Water well

1-3500 — **Test hole**
Drilled for U.S. Geological Survey in 1954–57; depth in feet indicated

15½° TRUE NORTH MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1959





GEOLOGIC MAP AND SECTIONS OF THE ROGERS LAKE AND KRAMER QUADRANGLES, CALIFORNIA

SCALE 1:62 500

½ 0 1 2 3 4 5 MILES

CONTOUR INTERVAL 25 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C. M R-2839