GEOLOGIC MAP OF THE MILL CREEK AREA, CALIFORNIA

EXPLANATION

Qrc

River channel deposits

Unconsolidated coarse gravel, sand, and silt in major stream channels; highly permeable, largely unsaturated but transmits large seepage losses from streams to ground water

Local Unconformity

Qyal

Younger alluvium

Unconsolidated boulders, gravel, sand and silt; highly permeable, yields water copiously to wells in Mill Creek basin

Local Unconformity

Recent

Qpb

Older plain and bench deposits

Unconsolidated gravel, sand, silt, and clay, largely unsaturated, but may yield water to wells in Mill Creek basin

Qoal

Older alluvium

Unconsolidated gravel, sand, silt, and clay, yields some water to wells in Mill Creek basin; elsewhere principal water-bearing unit where younger alluvium is absent or unsaturated

Unconformity

Pleistocene

QUATERNARY

QTs

San Timoteo beds of Frick (1921)

Semiconsolidated gravel, sand, silt, and clay, poorly to moderately permeable, where saturated yields small to moderate quantities of water to wells

Unconformity

Pliocene and lower Pleistocene

TERTIARY AND QUATERNARY

Tps

Potato sandstone of Vaughn (1922)

Consolidated interbedded sandstone, shale, conglomerate, talus breccia, and limestone; locally contains a fossil flora, essentially non-water-bearing and not tapped by wells

Unconformity

Miocene(?) and Pliocene

TERTIARY

bc

Basement complex

Consolidated igneous and metamorphic rocks of granite, quartz monzonite, dioritic gneiss, and mica schist, non-water-bearing, except for water in joints and fractures

PRE-TERTIARY

U

D

?

Fault

Dashed where approximately located, dotted where concealed, questioned where existence is doubtful

U, upthrown side; D, downthrown side

Ground-water barrier; approximately located, where coincident with faults the large dot symbols are superimposed in the appropriate fault symbol

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Strike and dip of beds

Direction of movement of landslide debris

◎R1

Irrigation or public-supply well

○A1

Small-capacity or unused well

ΦB1

Dry or destroyed well (1955)

Well numbers indicate location as explained in text

A ⊢——⊣ A'

Geologic sections showing water-level profiles
Sections shown on plate 4

Base from U. S. Geological Survey topographic maps

Geology and hydrology by
L. C. Dutcher and W. L. Burnham, 1953-55