MAP OF THE SAN BERNARDINO AREA, CALIFORNIA, SHOWING TYPES OF DEPOSITS, WELLS, AND WATER-LEVEL CONTOURS FOR MARCH 1945

SCALE 1:31,680

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

Base from U.S. Geological Survey topographic quadrangles

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Geology by L. C. Dutcher

EXPLANATION

Quaternary

Recent

Alluvial deposits

Qal

Unconsolidated coarse gravel, sand, and silt in major stream channels. Largely permeable. Largely recharged by precipitation directly falling thereon and by seepage from streams and streams to the main water body

Dune sand

Qds

Unconsolidated coarse to fine sand, generally cemented by capillarites. Not in part entirely eroding

LOCAL UNCONFORMITY

Pleistocene

Younger alluvium

Qyal

Unconsolidated coarse gravel, silt, and clay, containing some of the main underground water supply. Largely recharged by percolation from streams. Locally yields large quantities of water to wells

Older alluvium

Qoal

Unconsolidated coarse gravel, sand, and clay, cemented in places to a moderate degree by calcareous material and by iron oxide. Largely recharged from streams. Yields large quantities of water to wells

Terrace deposits

Qt

Unconsolidated coarse gravel, sand, and clay, cemented in places to a moderate degree by calcareous material and by iron oxide. Largely recharged from streams. Yields large quantities of water to wells

LOCAL UNCONFORMITY

Pliocene

Terrace and Quaternary continental deposits

Qt?

Unconsolidated to moderately consolidated gravel, sand, and clay. Locally includes a remarkable fanglomerate. Largely recharged from streams. Yields large quantities of water to wells

UNCONFORMITY

Basement complex

bc

Consolidated metamorphic and igneous rocks, principally granite, but there contains of gneiss, schist, and other metamorphic rocks; generally not water bearing

Faulted — — — —

Faulted where inferred or approximated

Public observation well

Faulted where approximately located, dashed where concealed, queried where doubtful. U, upthrown side; D, downthrown side

80

Strike and dip of beds

Structure-contour showing altitude of surface indicated or waterplane

Queried where physical nature of surface indicated or waterplane

Boundary of rock area, or occurrence of low water

Boundary of upper cretaceous member in Bunker Hill basin

Locality shown: see text map

W43

Number indicates location as explained in text

W43

Destroyed or not found in 1945 field canvass

Water-level contour in individual well

Shown for areas where contours cannot be constructed

Water-level contour for March 1945

Contours labeled with elevation above mean sea level, datum is sea level. Contour interval 20 feet. Is present area is shown Bill Basin, water-level contours estimated. Contour interval 20 feet. Is not used for 1945 data. Is 100 feet, dug, tapping the upper water-bearing zone

WATER-SUPPLY PAPER 1419
PLATE 5

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GEOLOGICAL SURVEY