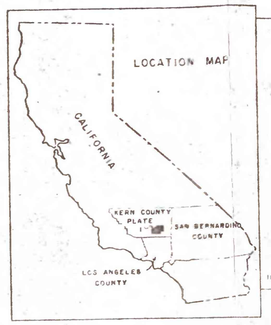
U. S. GEOLOGICAL SURVEY

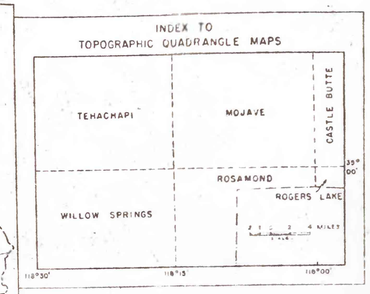
(205)
G 5ckw

57-62
PLATE 1

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

U.S. GEOL. SURVEY
LIBRARY





1 1/2 0 1 2 3 4 5 MILES
SCALE

118°30' 118°15' 118°00'
R. 14 W. R. 13 W. R. 12 W. R. 11 W. R. 10 W.
T. 32 S. T. 12 N. T. 11 N. T. 10 N. T. 9 N.

TEHACHAPI MOUNTAINS
CACHE CREEK
MUROC FAULT ZONE
GARLOCK FAULT
ROSAMOND FAULT
SOUTHERN PACIFIC
ATCHISON, TOPEKA AND SANTA FE
LOS ANGELES AQUEDUCT
TROPICO ROAD
OAK CREEK
WILLOW SPRINGS ROAD
MOJAVE
Mojave
Rosamond
Willow Springs
CHAFFEE AREA
GLOSTER AREA
WILLOW SPRINGS AREA
MILITARY RESERVATION BOUNDARY
M.D.B.&M.
S.B.B.&M.

EXPLANATION

Qal — Central valley alluvium
Unconsolidated gravel, sand, silt, and clay; yields water to wells where saturated

Qf — Alluvial fan deposits
Unconsolidated slope-wash debris, poorly sorted and poorly permeable. Generally above the water table

Qoal — Older alluvium
Unconsolidated, gravel, sand, silt, and clay, locally partly indurated. Main aquifer where saturated

Tc — Continental deposits
Coarse sand and fine gravel, weathered and compacted, or consolidated and semiconsolidated sandstone, limestone, and shale; poorly permeable, essentially non-water bearing

Tv — Volcanic rocks
Consolidated rocks, principally rhyolite plugs and dikes, essentially non-water bearing

bc — Basement complex
Consolidated rocks, principally granitic and dioritic, locally metasedimentary. Locally contains some undifferentiated Tertiary rocks. Essentially non-water bearing

QUATERNARY
TERTIARY
PRE - TERTIARY

Domestic, stock, or unused well

Irrigation or public-supply well

Dry or destroyed well

Geologic contact
Dashed where approximately located

Fault
Dashed where inferred, dotted where concealed, questioned where uncertain. Upthrown and downthrown sides, and direction of movement shown when known

MAP OF THE WILLOW SPRINGS, GLOSTER, AND CHAFFEE AREAS, KERN COUNTY, CALIFORNIA

SHOWING GENERAL GEOLOGY AND LOCATIONS OF WELLS, 1956

Base from U.S. Geological Survey and Army Map Service topographic maps, scale 1:62,500. Dashed section lines are projected from other scale maps and and are for reference only

Geology compiled by Fred Kunkel, largely generalized after unpublished mapping by L. C. Dutcher, T. W. Dibblee Jr., and others