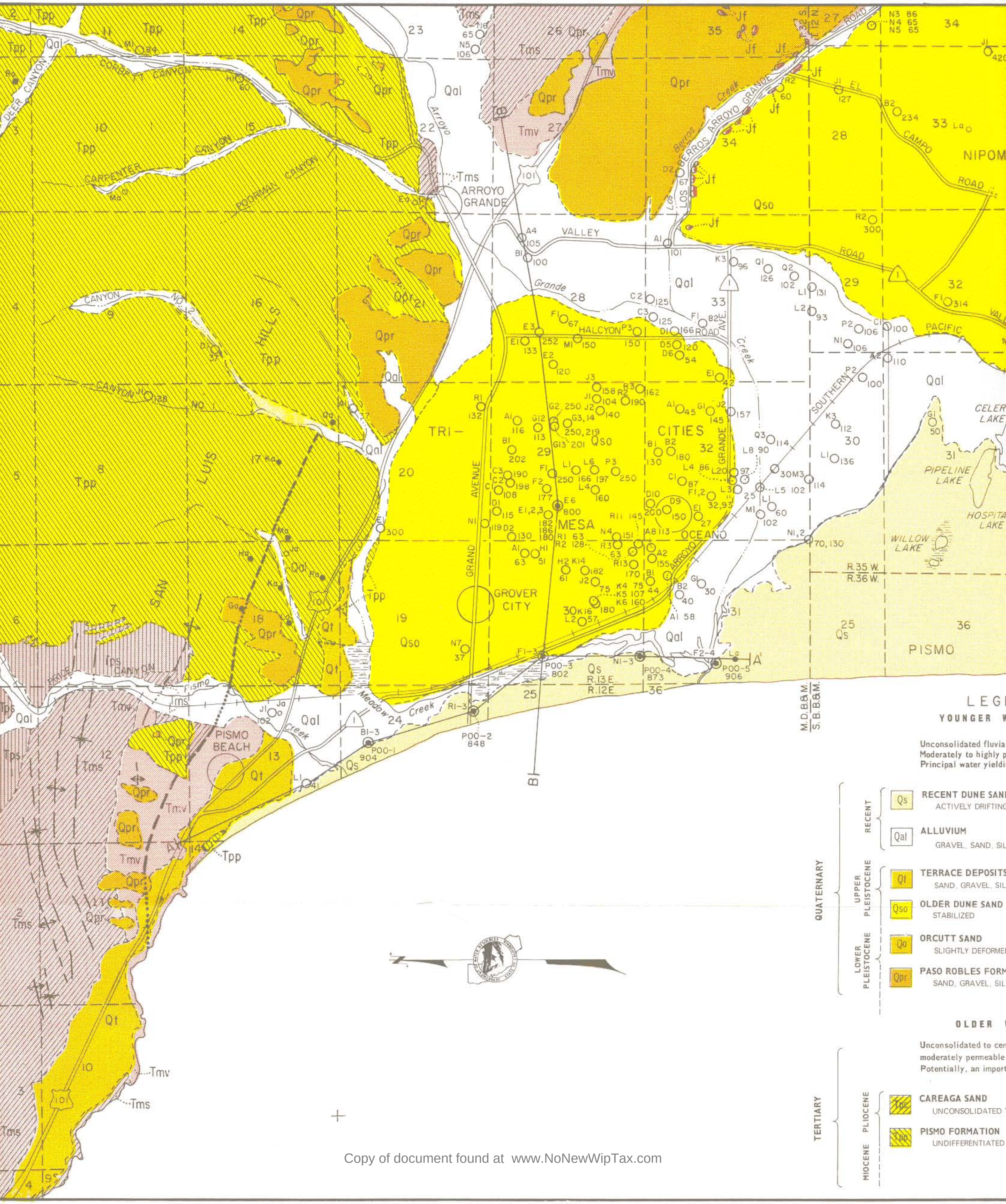

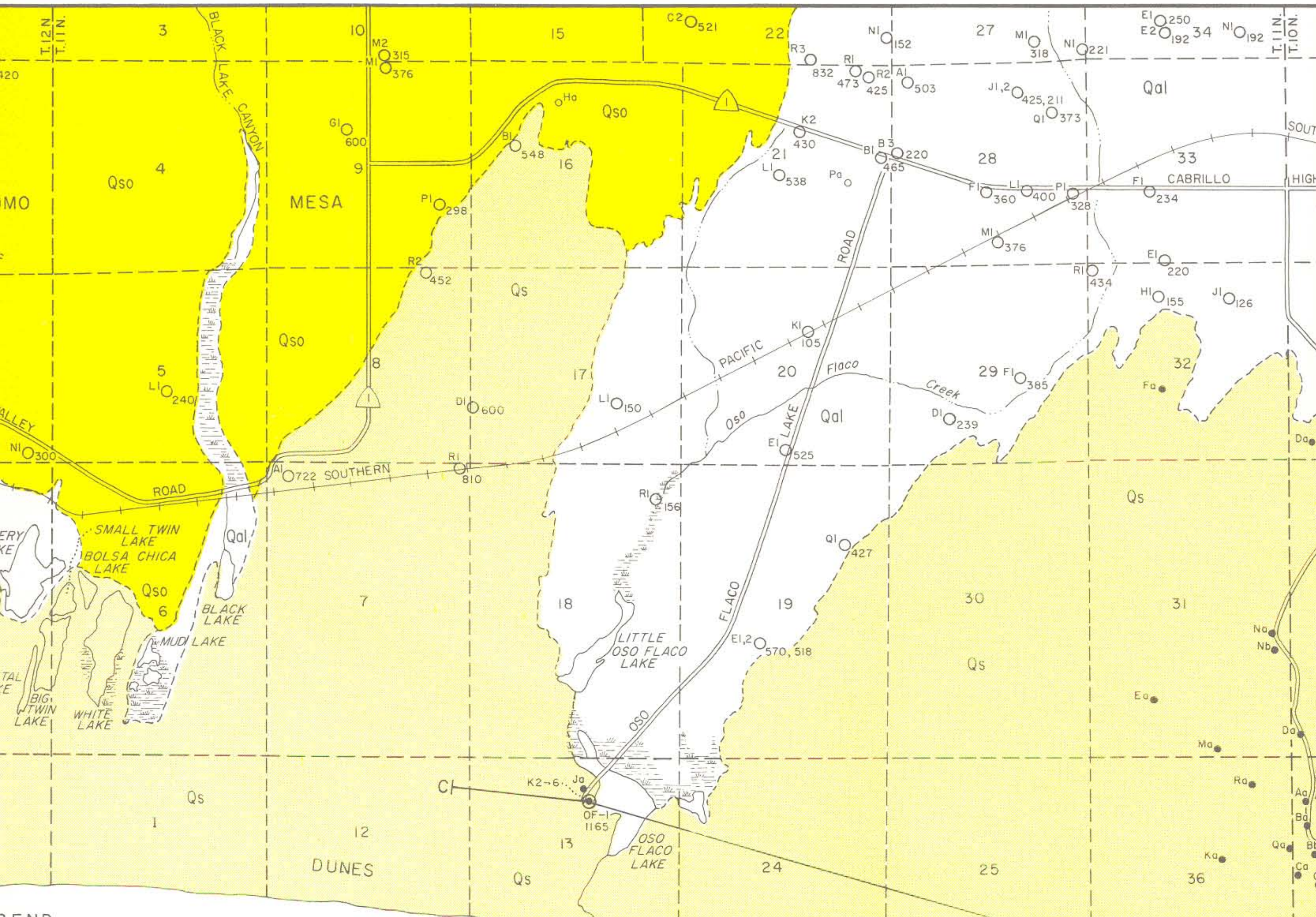

GEND

WATER BEARING SERIES

vial, aeolian and shallow marine deposits.
y permeable. Tapped by numerous wells.
lding deposits.

AND
NG

SILT, AND CLAY

TS
SILT, AND CLAY ON STREAM AND MARINE TERRACES

D

MED TERRACE DEPOSITS; SAND, GRAVEL, AND CLAY

RMATION
SILT, AND CLAY WITH BASAL FRESH WATER LIMESTONE

WATER BEARING SERIES

cemented shallow marine deposits. Low to
le. Now tapped by only a few wells.
ortant water supply.

D TO CEMENTED, FINE – TO COARSE–GRAINED SAND WITH GRAVEL AND CLAYEY SILT.

N
ED SANDSTONE FACIES

ESSENTIALLY NONWATER BEARING SERIES

Consolidated marine, volcanic and igneous rocks. Underlie and flank the water bearing deposits. Yield small quantities of fresh water from fractures at shallow depths in hill and mountainous areas. Contain brackish to saline water at depth.

TERTIARY

PLIOCENE

Tps — **UNDIFFERENTIATED MARINE SEDIMENTARY ROCKS,** SANDSTONES, SILTSTONES, AND SHALES

MIOCENE

Tms — **UNDIFFERENTIATED MARINE SEDIMENTARY ROCKS** CONGLOMERATES, SANDSTONES, SILTSTONES, AND SHALES

Tmv — **UNDIFFERENTIATED VOLCANIC ROCKS**

JURASSIC

Jk — **KNOXVILLE FORMATION** SHALE, THIN-BEDDED SANDSTONE, AND CONGLOMERATE

Jf — **FRANCISCIAN FORMATION** UNDIFFERENTIATED IGNEOUS, SEDIMENTARY, AND METAMORPHIC ROCKS

U/D — FAULT, DAS
D DOWNTHR

CONTACT, D

ANTICLINE,

SYNCLINE, D

A —— A' LINE OF GEO

A1 473 — WATER WEL

Ja — OIL WELL W

Ja — OIL WELL W

A1 473 — DWR EXPLO

FAULT, DASHED WHERE APPROXIMATELY LOCATED, DOTTED WHERE CONCEALED. D DOWNTHROWN SIDE. U UPTHROWN SIDE.

CONTACT, DASHED WHERE INFERRED.

ANTICLINE, DASHED WHERE APPROXIMATELY LOCATED. DOTTED WHERE CONCEALED.

SYNCLINE, DASHED WHERE APPROXIMATELY LOCATED. DOTTED WHERE CONCEALED.

LINE OF GEOLOGIC SECTION

WATER WELL WITH DRILLER'S LOG AND DEPTH

OIL WELL WITH ELECTRIC LOG

OIL WELL WITH DRILLER'S LOG

DWR EXPLORATORY TEST HOLE

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

STATUS OF SEA-WATER INTRUSION: PISMO BEACH-GUADALUPE AREA SAN LUIS OBISPO AND SANTA BARBARA COUNTIES

AREAL GEOLOGY

SCALE OF FEET
1000 0 2000 4000 6000

1969