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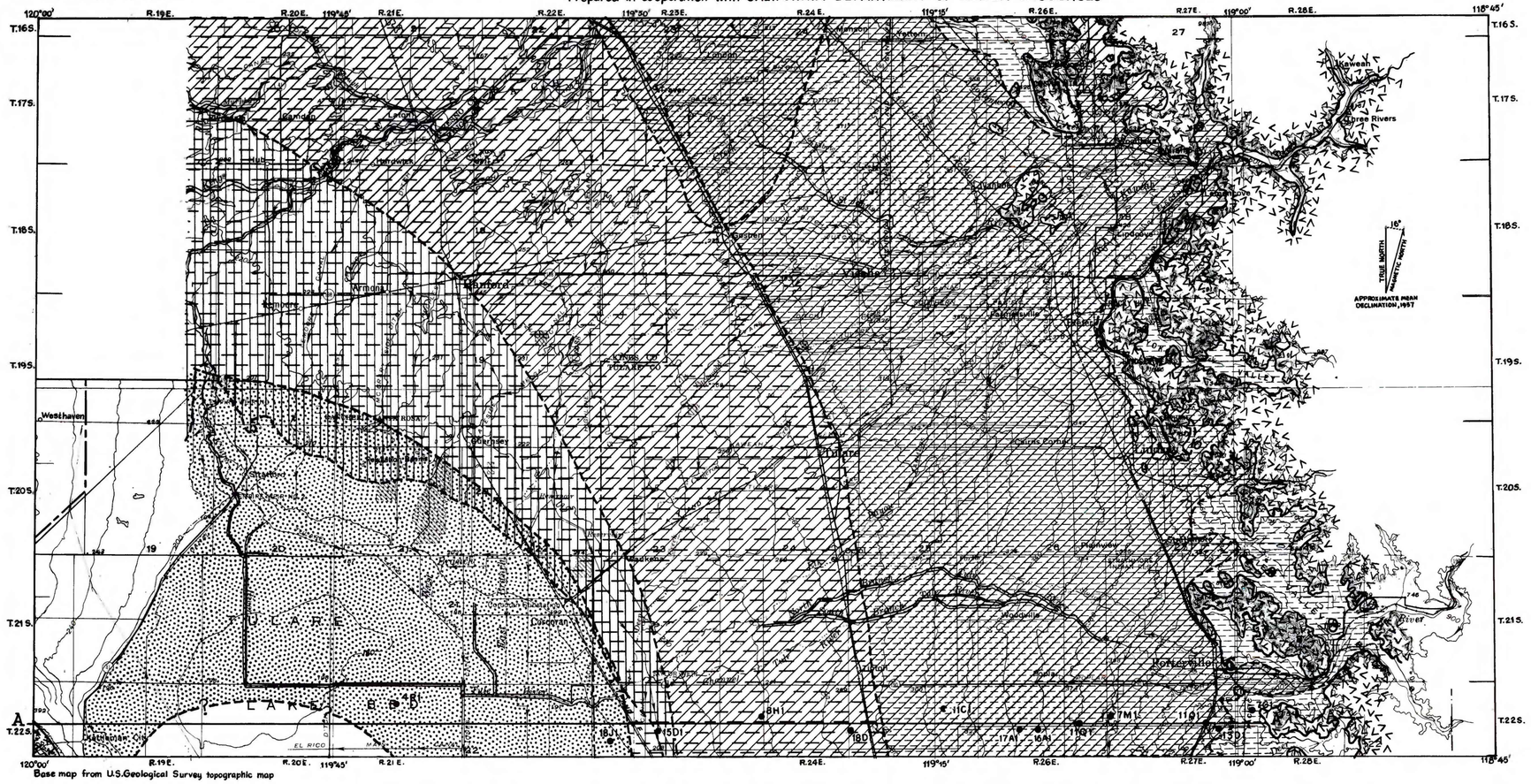
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with CALIFORNIA DEPARTMENT OF WATER RESOURCES

PLATE 10

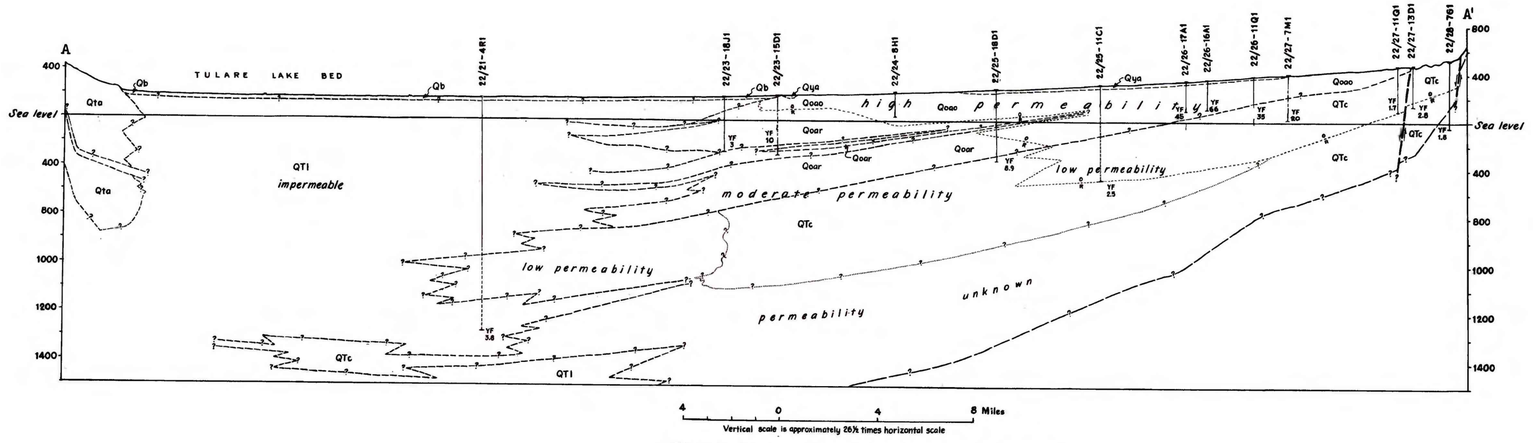


Base map from U.S. Geological Survey topographic map
Central Valley, California, South Area, 1959. 1:250,000

4 0 4 8 12 16 Miles

CONTOUR INTERVAL 100 FEET
CONTOURS AT 20 FOOT INTERVALS ARE SHOWN IN VALLEY AREA WHERE SPACE PERMITS
DATUM IS MEAN SEA LEVEL

Map showing range of yield factors in the older alluvium and in the continental deposits



Diagrammatic section of the ground-water reservoir

MAP AND DIAGRAMMATIC SECTION SHOWING RELATIVE PERMEABILITY OF GEOLOGIC UNITS AS INTERPRETED FROM YIELD FACTORS, HANFORD-VISALIA AREA, SAN JOAQUIN VALLEY, CALIFORNIA

EXPLANATION

Map symbols

Relative permeability

HIGH
- 74-155 / AV 130/4T
- 3-185 / AV 43/221T

MODERATE
- 2-34 / AV 14/30T
- 8-19

LOW
- 1-10 / AV 4.3/46T
- .05-12 / AV 3.1/56T

OLDER ALLUVIUM

CONTINENTAL DEPOSITS

Type of aquifer tapped by well

Yield factors

Numbers in box indicate range of yield factors (YF) as used in this report and determined by

$$YF = \frac{\text{specific capacity, in gallons per minute per foot of drawdown} \times 100}{\text{saturated thickness penetrated}}$$

Figures below box indicate the average yield (AV) from the number of tests (T)

Approximate boundary of yield factor area

A — A' Line of section

• 11C1 Water well shown on diagrammatic section

CONSOLIDATED ROCKS

Tmc — Marine rocks of Tertiary age

pTu — Basement complex of pre-Tertiary age

Section symbols

UNCONSOLIDATED DEPOSITS

Qya — Younger alluvium

Qoao / Qoar — Older alluvium
Qoao - *oxidized* Qoar - *reduced*

Qb — Flood-basin deposits

QTc — Continental deposits

QTa — Alluvium, undifferentiated

QTl — Lacustrine and marsh deposits

Approximate base of unconsolidated rocks

Line of contact between oxidized (O) and reduced (R) deposits

Lithologic contact

Inferred boundary between permeability units in the reduced continental deposits

Fault
Arrows indicate relative movement

YF 3.8
Water well
Dashed line indicates perforated interval. Figures beside well column indicate yield factor