48-79

UNITED STATES
DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY
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# PLATE I. MAP OF GILA BEND BASIN, MARICOPA COUNTY, ARIZONA

SHOWING GEOLOGY, LOCATIONS OF WELLS USED FOR IRRIGATION AND WATER LEVEL OBSERVATION, AND IRRIGATED AREAS.

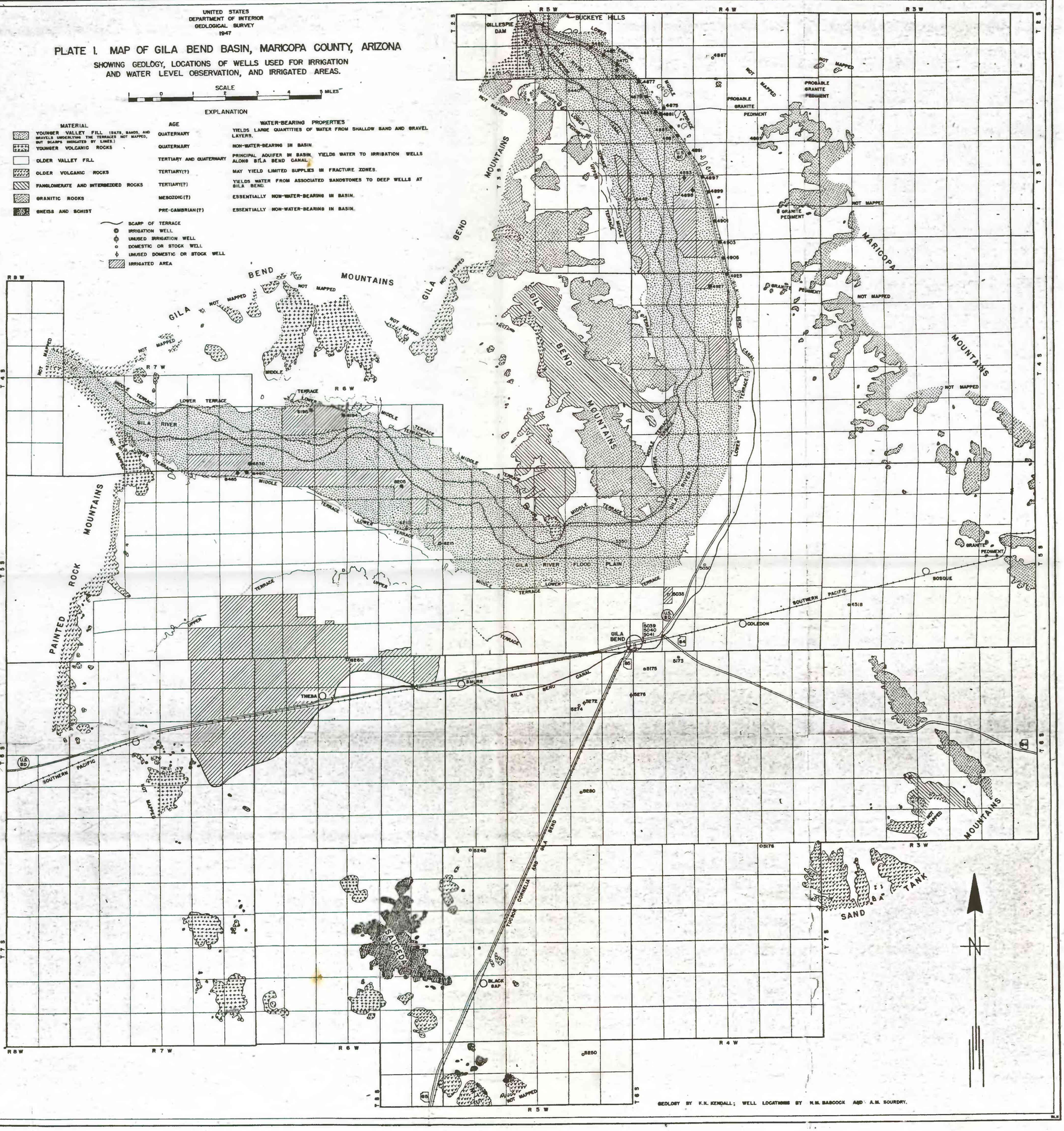
SCALE

1 0 1 2 3 4 5 MILES

EXPLANATION

| MATERIAL | AGE | WATER-BEARING PROPERTIES |
|---|---|---|
| YOUNGER VALLEY FILL (SILTS, SANDS, AND GRAVELS UNDERLYING THE TERRACES NOT MAPPED, BUT SCARPS INDICATED BY LINES.) | QUATERNARY | YIELDS LARGE QUANTITIES OF WATER FROM SHALLOW SAND AND GRAVEL LAYERS. |
| YOUNGER VOLCANIC ROCKS | QUATERNARY | NON-WATER-BEARING IN BASIN. |
| OLDER VALLEY FILL | TERTIARY AND QUATERNARY | PRINCIPAL AQUIFER IN BASIN. YIELDS WATER TO IRRIGATION WELLS ALONG GILA BEND CANAL. |
| OLDER VOLCANIC ROCKS | TERTIARY(?) | MAY YIELD LIMITED SUPPLIES IN FRACTURE ZONES. |
| FANGLOMERATE AND INTERBEDDED ROCKS | TERTIARY(?) | YIELDS WATER FROM ASSOCIATED SANDSTONES TO DEEP WELLS AT GILA BEND. |
| GRANITIC ROCKS | MESOZOIC(?) | ESSENTIALLY NON-WATER-BEARING IN BASIN. |
| GNEISS AND SCHIST | PRE-CAMBRIAN(?) | ESSENTIALLY NON-WATER-BEARING IN BASIN. |

SCARP OF TERRACE
IRRIGATION WELL
UNUSED IRRIGATION WELL
DOMESTIC OR STOCK WELL
UNUSED DOMESTIC OR STOCK WELL
IRRIGATED AREA




GEOLOGY BY K.K. KENDALL; WELL LOCATIONS BY N.M. BABCOCK AND A.M. SOURDRY.