

UNITED STATES  
DEPARTMENT OF INTERIOR  
GEOLOGICAL SURVEY  
1947

PLATE I. MAP OF WILLCOX BASIN, COCHISE AND GRAHAM COUNTIES, ARIZONA  
SHOWING GEOLOGY, LOCATIONS OF WELLS USED FOR IRRIGATION AND  
WATER LEVEL OBSERVATION, OIL TESTS, AND IRRIGATED AREAS.



MATERIAL	PROBABLE AGE	WATER-BEARING PROPERTIES
YOUNGER FILL	QUATERNARY (RECENT)	YIELDS WATER TO SHALLOW WELLS ALONG STREAM CHANNELS IN MOUNTAINS.
BASALT	QUATERNARY	ESSENTIALLY NON-WATER-BEARING IN BASIN.
OLDER FILL	TERTIARY(?) AND QUATERNARY	PRINCIPAL AQUIFER OF BASIN. YIELDS LARGE QUANTITIES OF WATER FROM SAND AND GRAVEL LENSES.
VOLCANIC ROCKS (INCLUDES A FEW BASALTS OF QUATERNARY AGE)	TERTIARY AND CRETACEOUS(?)	YIELDS LIMITED SUPPLIES FROM FRACTURES, VESICLES, AND OTHER OPENINGS.
OLDER SEDIMENTARY ROCKS PALEOZOIC AND MESOZOIC		LIMITED SUPPLIES ENCOUNTERED IN CAVES AND MINES. SPRINGS OCCUR IN SOME LOCALITIES.
GRANITE (INCLUDES SOME GRANITES YOUNGER THAN PRE-CAMBRIAN)	PRE-CAMBRIAN	YIELDS LIMITED SUPPLIES FROM FRACTURES AND WEATHERED ZONES.
SCHIST	PRE-CAMBRIAN	YIELDS LIMITED SUPPLIES FROM FRACTURES.

- EXPLANATION-
- KNOWN FAULT
  - - - PROBABLE FAULT
  - FLOWING WELL
  - ⊙ FLOWING WELL, PUMPED FOR IRRIGATION
  - ⊕ IRRIGATION WELL
  - ⊖ DOMESTIC OR STOCK WELL USED FOR WATER LEVEL OBSERVATION
  - ⊕ OIL TEST
  - ⊕ SPRING
  - IRRIGATED AREA

GEOLOGY BY R. S. JONES; WELL LOCATIONS BY R. L. CUSHMAN AND M. S. BOOMER.

THE GEOLOGY SHOWN IN THE DRAGON MOUNTAINS IS ALMOST ENTIRELY THAT MAPPED BY JAMES GILLULY AND THE GEOLOGY SHOWN IN THE LITTLE DRAGON MOUNTAINS IS IN PART THAT MAPPED BY JOHN R. COOPER.

