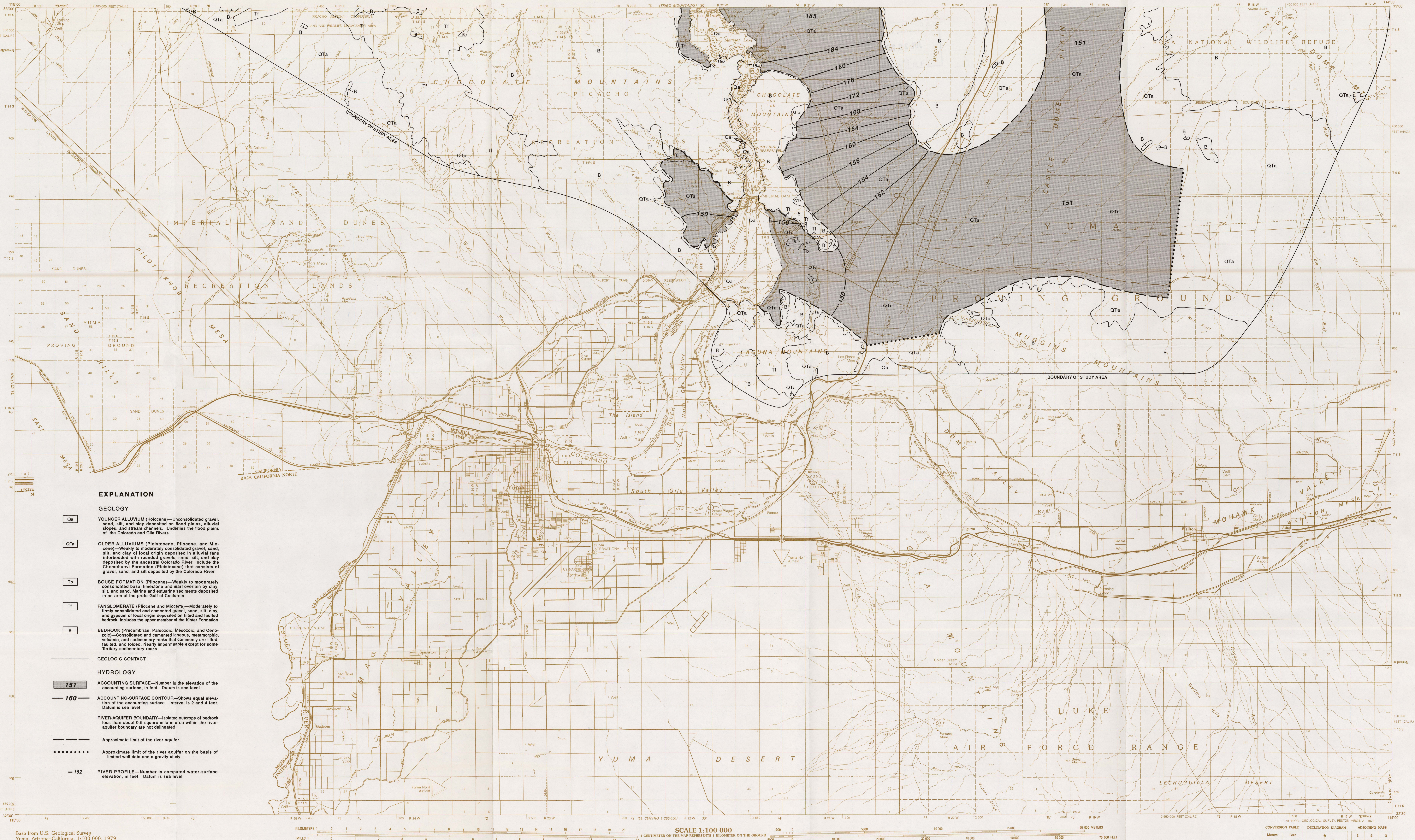


200
#W.R.
as 94-4005



EXPLANATION

GEOLOGY

Qa

YOUNGER ALLUVIUM (Holocene)—Unconsolidated gravel, sand, silt, and clay deposited on flood plains, alluvial slopes, and stream channels. Underlies the flood plains of the Colorado and Gila Rivers

QTa

OLDER ALLUVIUMS (Pleistocene, Pliocene, and Miocene)—Weakly to moderately consolidated gravel, sand, silt, and clay of local origin deposited in alluvial fans interbedded with rounded gravels, sand, silt, and clay deposited by the ancestral Colorado River. Includes the Chemehuevi Formation (Pleistocene) that consists of gravel, sand, and silt deposited by the Colorado River

Tb

BOUSE FORMATION (Pliocene)—Weakly to moderately consolidated basal limestone and marl overlain by clay, silt, and sand. Marine and estuarine sediments deposited in an arm of the proto-Gulf of California

Ti

FANGLOMERATE (Pliocene and Miocene)—Moderately to firmly consolidated and cemented gravel, sand, silt, clay, and gypsum of local origin deposited on tilted and faulted bedrock. Includes the upper member of the Kintor Formation

B

BEDROCK (Precambrian, Paleozoic, Mesozoic, and Cenozoic)—Consolidated and cemented igneous, metamorphic, volcanic, and sedimentary rocks that commonly are tilted, faulted, and folded. Nearly impermeable except for some Tertiary sedimentary rocks

GEOLOGIC CONTACT

HYDROLOGY

151

ACCOUNTING SURFACE—Number is the elevation of the accounting surface, in feet. Datum is sea level

160

ACCOUNTING SURFACE CONTOUR—Shows equal elevation of the accounting surface. Interval is 2 and 4 feet. Datum is sea level

RIVER-AQUIFER BOUNDARY—Isolated outcrops of bedrock less than about 0.5 square mile in area within the river-aquifer boundary are not delineated

Approximate limit of the river aquifer

Approximate limit of the river aquifer on the basis of limited well data and a gravity study

162

RIVER PROFILE—Number is computed water-surface elevation, in feet. Datum is sea level

Base from U.S. Geological Survey
Yuma, Arizona-California, 1:100,000, 1979

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

RIVER AQUIFER AND ACCOUNTING SURFACE IN THE LOWER COLORADO RIVER VALLEY

YUMA, ARIZONA-CALIFORNIA

By
Richard P. Wilson
1994

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet			1	2	3
1	3.2808			4	5	
2	6.5617			6	7	8
3	9.8425					
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9658					
8	26.2467					
9	29.5275					
10	32.8084					

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048

UTM grid convergence (GN and UTM) negative at center of map
Diagram is approximate

1 Salton Sea
2 Trijo Mts.
3 Little Horn Mts.
4 Center
5 Deltaland
6 Tinajas Altas Mts.
7 Tinajas Altas Mts.
8 Cabeza Prieta Mts.