

Base from U.S. Geological Survey
Davis Dam, Arizona-Nevada-California, 1:100,000, 1982

RIVER AQUIFER AND ACCOUNTING SURFACE IN THE LOWER COLORADO RIVER VALLEY

DAVIS DAM, ARIZONA-NEVADA-CALIFORNIA

By
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1994

EXPLANATION

GEOLOGY

Qa

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

QTa

OLDER ALLUVIUMS (Pliocene, 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. Include the Chemehuevi Formation (Pliocene) 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

FANLOMERATE (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 Kinter 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

645

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

ACCOUNTING SURFACE


490

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

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

-480

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

| CONVERSION TABLE | | DECLINATION DIAGRAM | | ADJOINING MAPS | | | |
|--|---------|---|--|----------------|---|---|--|
| Meters | Feet |  | | 1 | 2 | 3 | |
| 1 | 3.2808 | | | | | | |
| 2 | 6.5617 | | | | | | |
| 3 | 9.8425 | | | | | | |
| 4 | 13.1234 | | | | | | |
| 5 | 16.4042 | | | | | | |
| 6 | 19.6850 | | | | | | |
| 7 | 22.9657 | | | | | | |
| 8 | 26.2467 | | | | | | |
| 9 | 29.5275 | | | | | | |
| 10 | 32.8084 | | | | | | |
| To convert meters to feet multiply by 3.2808 | | UTM grid convergence (GN) and 1987 magnetic declination (MD) at center of map Diagram is approximate | | 1 | 2 | 3 | |
| To convert feet to meters multiply by 0.3048 | | | | 4 | 5 | 6 | |
| | | | | 7 | 8 | 9 | |

| | |
|---|---------------|
| 1 | Mesquite Lake |
| 2 | Boulder City |
| 3 | Peach Springs |
| 4 | Yampah |
| 5 | Valentine |
| 6 | Amboy |
| 7 | Needles |
| 8 | Bagdad |