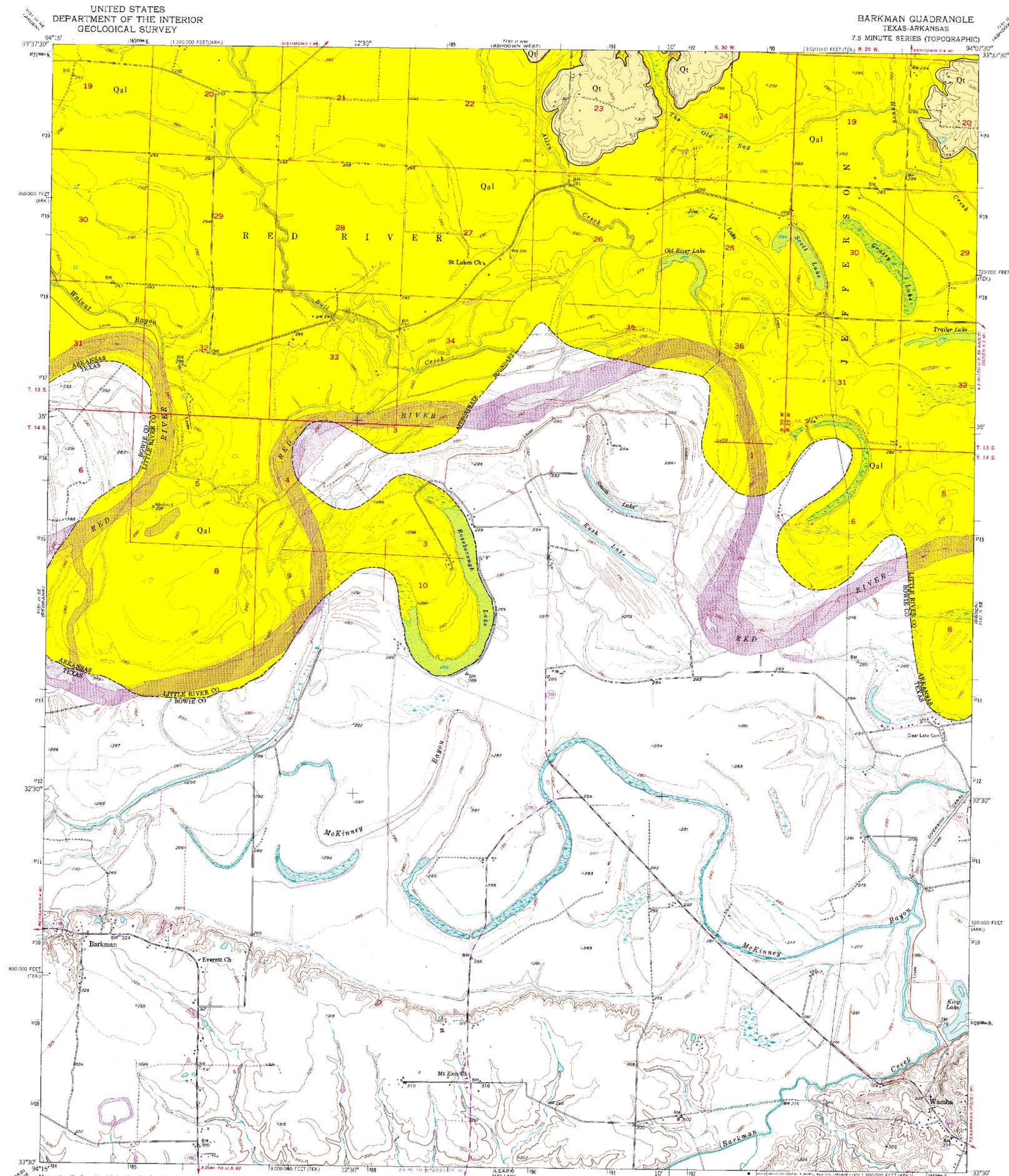


# GEOLOGICAL MAP OF THE BARKMAN QUADRANGLE, LITTLE RIVER COUNTY, ARKANSAS

DIGITAL GEOLOGIC QUADRANGLE MAP  
BARKMAN, TEXAS  
DGM - TX - AR - 0222

Geology by William D. Hanson and Benjamin F. Clardy  
Edited by William D. Hanson  
2004  
Arkansas Geological Commission, Mac Woodward, State Geologist  
Digital compilation by Walter K. Mayfield



### Correlation of Map Units



### Descriptions of Map Units

**Qal** **Alluvium (Quaternary)** - Variably sized gravel overlain by unconsolidated sand, silt, and clay comprises the unit. This unit occurs in the floodplains of streams and rivers. The sediments form a rich loam and are excellent for agriculture. Gravels, primarily novaculite, originated in the Ouachita Mountain region and from local Cretaceous formations. Thickness varies from 0 to 60 feet. Areas of alluvium are presently receiving sediment deposition.

**Qt** **Terrace Deposit (Quaternary)** - Terrace deposits generally grade from basal gravel to silt and clay at the top. Gravels, primarily novaculite, originated in the Ouachita Mountain region and from local Cretaceous formations. Thicknesses are generally less than 50 feet. Terraces are topographic features which are former floodplains of nearby streams and/or rivers. The sediments form a rich loamy soil. The basal gravel is sometimes utilized for water-well production and gravel-mining operations.

### Symbol

— Contact

### References

Bush, W. V., and Clardy, B. F., 1971, Geologic Map of the Quadrangle, Little River County, Arkansas: Arkansas Geological Commission Open-File Report, scale 1:24,000.

Dane, C.H., 1929, Upper Cretaceous Formations of Southwestern Arkansas: Arkansas Geological Survey Bulletin 1, 215p.

McFarland, J. D., 1998, Stratigraphic Summary of Arkansas: Arkansas Geological Commission Information Circular 36, 39p.

Mapped, edited, and published by the Geological Survey  
Control by USGS, USCE, and USC&GS  
Culture and drainage in part compiled from aerial photographs taken 1949  
Topography by plane-table methods 1949-1950  
Polyconic projection, 1927 North American datum  
10,000-foot grid based on Texas coordinate system, north central zone, and Arkansas coordinate system, south zone  
1000-metre Universal Transverse Mercator grid ticks, zone 15, shown in blue  
Revisions shown in graphic compiled from aerial photographs taken 1970 and 1975. This information not field checked

UTM GRID AND 1983 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

THIS MAP COMPLES WITH NATIONAL MAP ACTUACITY STANDARDS  
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AND ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72204  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

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### ROAD CLASSIFICATION

Medium-duty — Light-duty —  
Unimproved dirt —  
State Route



BARKMAN, TEX.-ARK.  
N3330-W9407.5/7.5

1950  
PHOTOREVISED 1977 AND 1975  
AMS 715 II SW-SERIES 1984

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