

GEOLOGICAL MAP OF THE HOMAN QUADRANGLE, LITTLE RIVER, AND MILLER COUNTIES, ARKANSAS

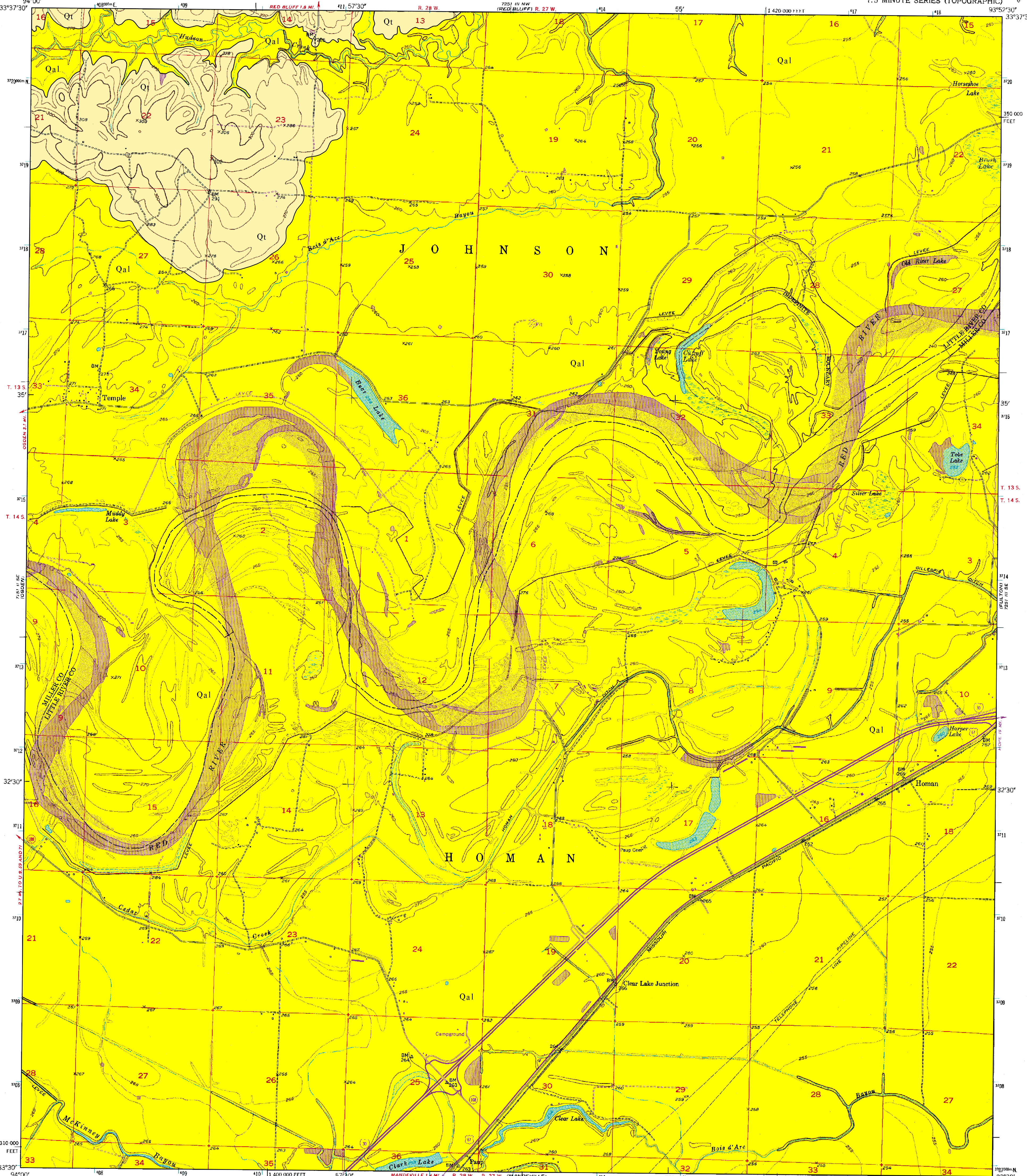
DIGITAL GEOLOGIC QUADRANGLE MAP
HOMAN, ARKANSAS
DGM - AR - 00405

Geology by William D. Hanson and Benjamin F. Clardy
Edited by William D. Hanson
2004

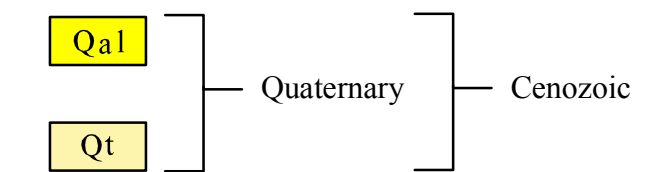
Arkansas Geological Commission, Mac Woodward, State Geologist
Digital compilation by Walter K. Mayfield

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HOMAN QUADRANGLE
ARKANSAS
7.5 MINUTE SERIES (TOPOGRAPHIC)



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

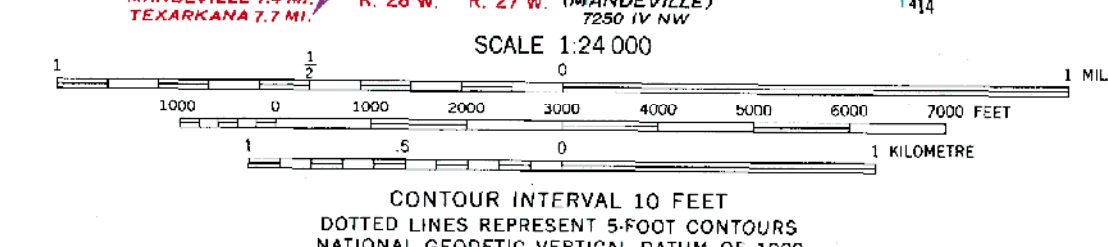
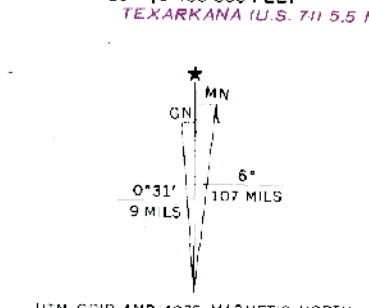
References

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

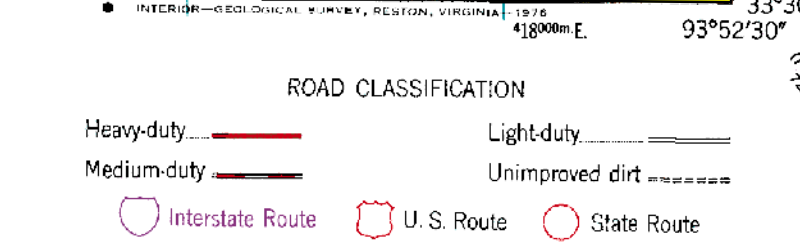
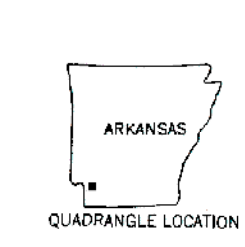
Dane, C.H., 1929, Upper Cretaceous Formations of Southwestern Arkansas: Arkansas Geological Survey Bulletin 1, 215p.

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, USC&GS, and USCE
Culture and drainage in part compiled from aerial photographs taken 1949. Topography by plane-table surveys 1951
Polycoric projection. 1927 North American datum
10,000 foot grid based on Arkansas coordinate system,
south zone
1000-metre Universal Transverse Mercator grid ticks,
zone 15, shown in blue
Revisions shown in purple compiled from aerial photographs taken 1970 and 1975. This information not field checked



CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929



HOMAN, ARK.
N3330-W9552.5/7.5
1951
PHOTOREVISED 1970 AND 1975
AND 7251 1ST GW-SERIES 7884

Funded by the State of Arkansas in conjunction with the
United States Geological Survey STATEMAP PROJECT
No. 1434-94-A-1223.

DISCLAIMER
Although this map was compiled from digital data that was successfully processed on a computer system using ArcGIS 9.0 at the Arkansas Geological Commission (AGC), no warranty, expressed or implied, is made by AGC regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. AGC does not guarantee this map or digital data to be free of errors or liability for interpretations from this map or digital data, or decisions based thereon.
The views and conclusions contained in this document are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the Arkansas Geological Commission.

