

GEOLOGIC WORKSHEET OF THE ARKANSAS PORTION OF THE OPEN LAKE QUADRANGLE, MISSISSIPPI COUNTY, ARKANSAS



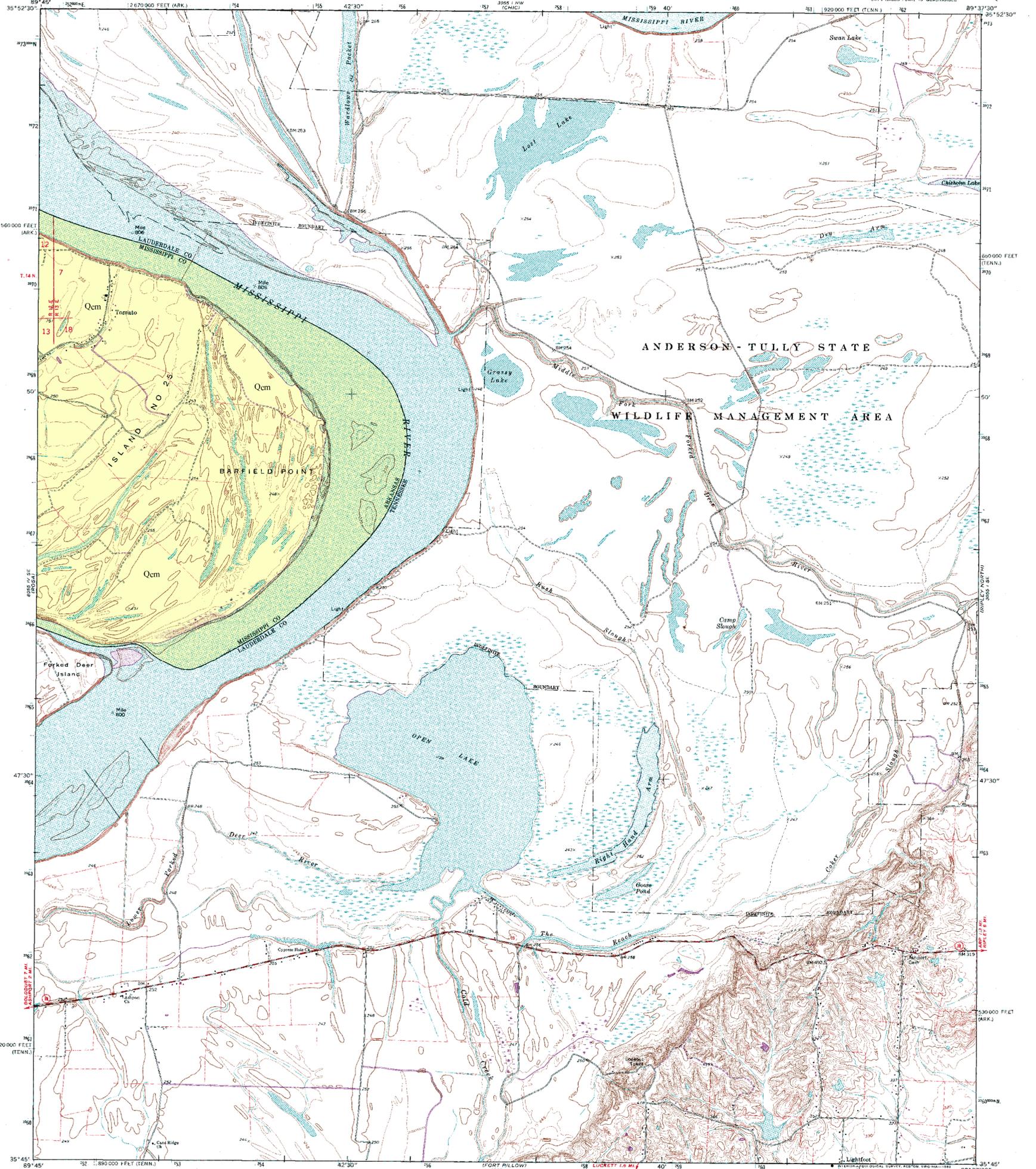
Geology by Boyd R. Haley
 1969

Geology modified by Scott M. Ausbrooks and William L. Prior
 2006

Arkansas Geological Commission, Bekki White, State Geologist
 Digital compilation by Jerry W. Clark

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

OPEN LAKE QUADRANGLE
 TENNESSEE-ARKANSAS
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 SW 4 HALES POINT 15' QUADRANGLE



Mapped, edited, and published by the Geological Survey
 Control by USGS and NOS/NGA
 Topography by photogrammetric methods from aerial photographs taken 1971. Field checked 1972
 Projection: Tennessee coordinate system (Lambert conformal conic). 10,000-foot grid ticks based on Tennessee coordinate system, and Arkansas coordinate system, north zone 1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue. 1927 North American Datum
 To place on the predicted North American Datum 1983 move the projection lines 6 meters south and 7 meters east as shown by dashed corner ticks
 Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked. There may be private inholdings within the boundaries of the National or State reservations shown on this map
 Revisions shown in purple and woodland compiled from aerial photographs taken 1981 and other sources. This information not field checked. Map edited 1983

UTM GRID AND 1983 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24,000
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 CONTOUR INTERVAL 5 AND 10 FEET

ROAD CLASSIFICATION
 Primary highway, hard surface
 Secondary highway, hard surface
 Interstate Route
 U. S. Route
 State Route
 Light-duty road, hard or improved surface
 Unimproved road

OPEN LAKE, TENN.-ARK.
 SW 4 HALES POINT 15' QUADRANGLE
 35089-GG-TF-024
 1972
 PHOTOREVISED 1983
 DMA 3051 1 SW - SERIES V841

Description of Map Units

Qcm
 Alluvium
 The Quaternary Age (Holocene) Channel Meander Alluvium are alluvial sediments derived from typically older alluvial deposits that have been more recently reworked by channel meanders and include flood plain deposits of significant streams. Sediments will typically include unconsolidated gravels, sands, silts, clays and varying mixtures of any and all of these. The division of this unit from other Holocene alluvial sediments is based primarily on geomorphic considerations (presence of meander scars, point bars, and abandon channels) than lithology or age. Fossils are rare and the thickness is variable.

About the Map

The *Geologic Worksheet of the Arkansas Portion of the Open Lake Quadrangle* is a 1:24,000 scale digital geologic worksheet. The original geology was scanned, digitized and transferred from the Hales Point 1:62,500 scale geologic worksheet of Haley, B.R., 1969 and modified by Ausbrooks, S.M., and Prior, W.L., 2006. Copies of this map are available from the Arkansas Geological Commission, Little Rock, AR.

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 unity 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.
 The base used in the making of this map was acquired online from GeoStor. The data is DRG24K (Digital Raster Graphics), 1:24,000, USGS.