



Arkansas Geological Survey
Bekki White, State Geologist and Director

DIGITAL GEOLOGIC QUADRANGLE MAP
GILLHAM QUADRANGLE, ARKANSAS
DGM-AR-00331

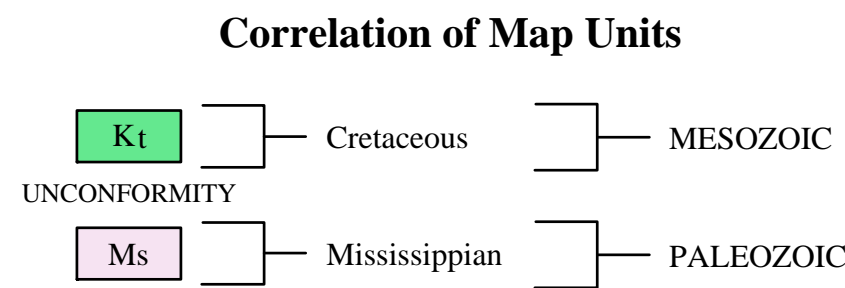
GEOLOGIC MAP OF THE GILLHAM QUADRANGLE, POLK AND SEVIER COUNTIES, ARKANSAS

Geology by B.R. Haley, C.G. Stone, W.D. Hanson, and B.F. Clardy
1994

Digital compilation by Nathan H. Taylor
2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GILLHAM QUADRANGLE
ARKANSAS
7.5 MINUTE SERIES (TOPOGRAPHIC)

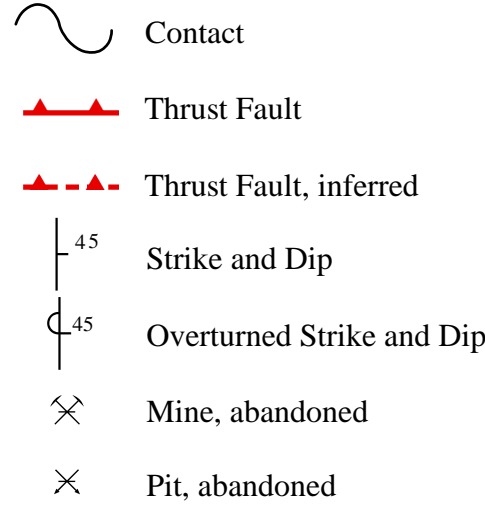


Description of Map Units

Kt **Trinity Group (Lower Cretaceous)** - The Trinity is composed of sand and gravel. Gravels are one to six inches in diameter and consist of novaculite, chert, quartz, and sandstone. Sands and gravels may exhibit cross bedding. Following a major unconformity, the unit was deposited in a near shore environment and is about 60 feet thick.

Ms **Stanley Formation (Mississippian)** - The Stanley is composed predominantly of grayish-black to brownish-gray shale, with lesser amounts of thin to massive-bedded, fine-grained, gray to brownish-gray feldspathic sandstone, dark green to black tuff and black chert. Weathered shale is olive-gray, and the sandstone is generally more porous and brown. Most of the Stanley is Late Mississippian (Chesterian) as indicated by conodonts and plant fossils. The formation was deposited in a deep marine environment.

Symbols



Mineral Commodities

Sb Antimony

Sh Shale

References

- Haley, B.R., and Stone, C.G., 1976, Geologic Worksheet of the Gillham Quadrangle, Arkansas: Arkansas Geological Commission, Open-file Report, scale 1:24,000.
- Howard, J.M., 2008, Arkansas Mineral Commodity Database, In-house data: Arkansas Geological Survey.
- McFarland, J.D., 2004, Stratigraphic Summary of Arkansas: Arkansas Geological Commission Information Circular 36, 39p.
- Miser, H.D., and Purdue, A.H., 1929, Geology of the De Queen and Caddo Gap Quadrangles, Arkansas: U.S. Geological Survey, Bulletin 808, 195p, scale 1:125,000.

DISCLAIMER

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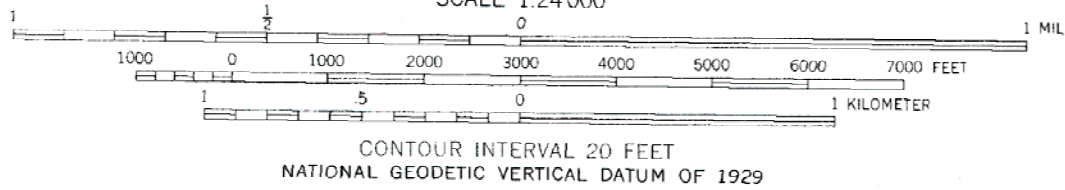
Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1961 and 1963. Field checked 1964

Polyconic projection. 1927 North American datum 10,000-foot grid based on Arkansas coordinate system, south zone 1000 meter Universal Transverse Mercator grid ticks, zone 15, shown in blue

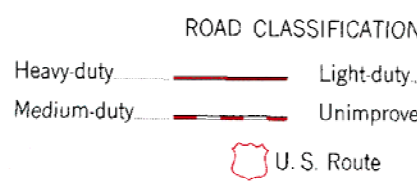
Areas covered by dashed light-blue pattern are subject to controlled inundation

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is unchecked



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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

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GILLHAM, ARK.
N3407.5—W9415.7.5

1964

AMS 7152 III NE—SERIES V884