

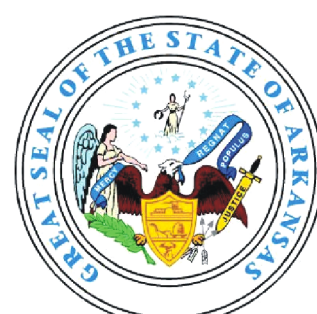
GEOLOGIC MAP OF THE WALDRON QUADRANGLE, SCOTT COUNTY, ARKANSAS



Geology by Boyd R. Haley and Charles G. Stone
1994

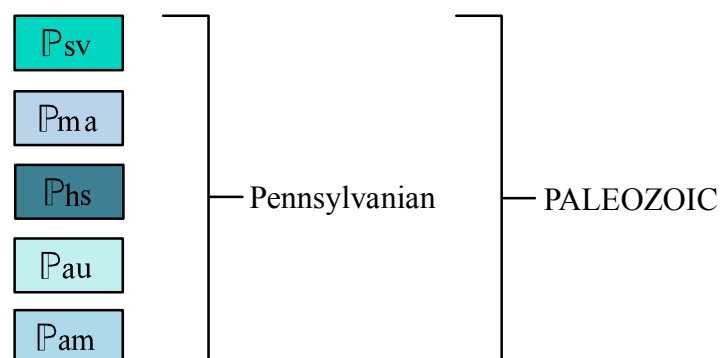
Edited by William D. Hanson
Digital Compilation by Brandy R. Rakes
2007

Arkansas Geological Survey, Bekki White, State Geologist



WALDRON QUADRANGLE
ARKANSAS-SCOTT CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

Correlation of Map Units



Description of Map Units

- Psv** **Savanna Formation (Pennsylvanian)** - The Formation consists of dark-gray shale and silty shale, with minor amounts of light-gray siltstone and gray very fine to fine sandstone, and coal beds. In this unit a few plant and invertebrate fossils may be found. This unit is about 1600 feet thick and was deposited in a fluvial environment.
- Pma** **McAlister Formation (Pennsylvanian)** - The Formation consists of gray to black shale, tan to gray, thin-bedded sandstone, with a few coal beds. Plant and invertebrate fossils may be found from several horizons in the unit, which is 500 to 2300 feet thick. The unit was deposited in a fluvial environment.
- Pbs** **Hartsborne Formation (Pennsylvanian)** - The Formation consists of brown to gray, massive, cross-bedded, medium-grained sandstone, and some coal beds in the lower part of the unit. Plant fossils occur in the unit but are not abundant. This formation was deposited in a fluvial environment and ranges in thickness from about 10 to 300 feet.
- Pau** **Atoka Formation upper (Pennsylvanian)** - The Formation consists of marine tan to gray silty sandstone and grayish-black shale. Only in the Arkansas Valley and frontal Ouachita Mountain provinces is this formation split into the upper, middle, and lower members. The Atoka Formation has a thickness of about 25,000 feet.
- Pam** **Atoka Formation middle (Pennsylvanian)** - The Formation consists of marine tan to gray silty sandstone and grayish-black shale. Only in the Arkansas Valley and frontal Ouachita Mountain provinces is this formation split into the upper, middle, and lower members. The Atoka Formation has a thickness of about 25,000 feet.

Symbols

- Contact
— Thrust Fault
— Strike and Dip
× Pit
× Quarry
× R Reclaimed Pit

Mineral Commodities

- Sh Shale
CS Crushed Stone

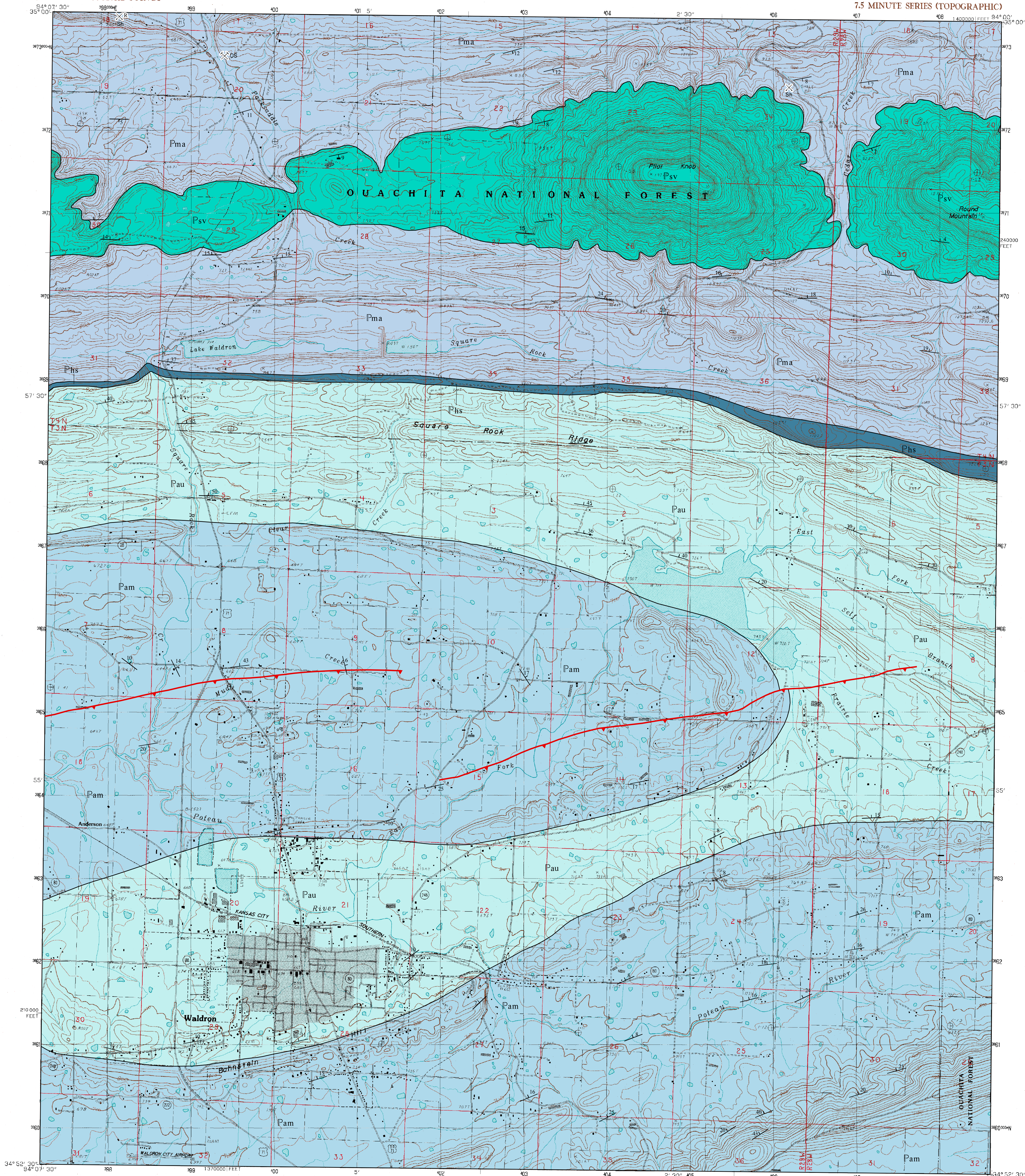
References

- Haley, B. R., and Stone, C. G., 1976, Geologic Worksheet of the Waldron Quadrangle Arkansas: Arkansas Geological Commission, Open-file report, scale 1:62,500.
- Howard, J. M., 2007, 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 DeQueen and Caddo Gap Quadrangles, Arkansas: U.S. Geological Survey, Bulletin 808, 195p., scale 1:125,000.

DISCLAIMER

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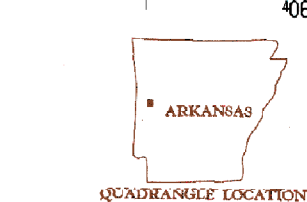
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PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY: 1986 AND 1987/1988
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN: 1986
FIELD CHECKED: 1986
MAP EDITED: 1986
PROJECTION: LAMBERT CONFORMAL CONIC
GRID: 1983
UNIVERSAL TRANSVERSE MERCATOR
ZONE 18
NAD 83
STATE GRID TIER 1
UTM GRID DECLINATION: 0° 00' WEST
1983 MAGNETIC NORTH DECLINATION: 0° 00' WEST
VERTICAL DATUM: NATIONAL GEOLOGIC VERTICAL DATUM OF 1983
HORIZONTAL DATUM: 1983 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983, move the projection lines as shown by dashed corner ticks (7 meters south and 18 meters east).
There may be private inholdings within the boundaries of any Federal and State Reservations shown on this map.
No distinction made between houses, barns, and other buildings.
Gray tint indicates area in which selected buildings are shown.

PROVISIONAL MAP
Produced from original
manuscript drawings. Information
shown as of date of
photography.

SCALE 1:24 000
1 000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
METERS
1 000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET
CONTOUR INTERVAL 20 FEET
CONTROL ELEVATIONS SHOWN TO THE NEAREST 31 FOOT
OTHER ELEVATIONS SHOWN TO THE NEAREST FOOT
To convert feet to meters multiply by .3048
To convert meters to feet multiply by 3.2808
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND THE ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72204



1	2	3	Abbott
4	5	6	Golden City
7	8	9	Beaumont
10	11	12	Mountain
13	14	15	Pike
16	17	18	Platte

ROAD LEGEND
Improved Road
Unimproved Road
Trail
Interstate Route
U.S. Route
State Route

WALDRON, ARKANSAS
PROVISIONAL EDITION 1983

34094-HL-TF-024

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