

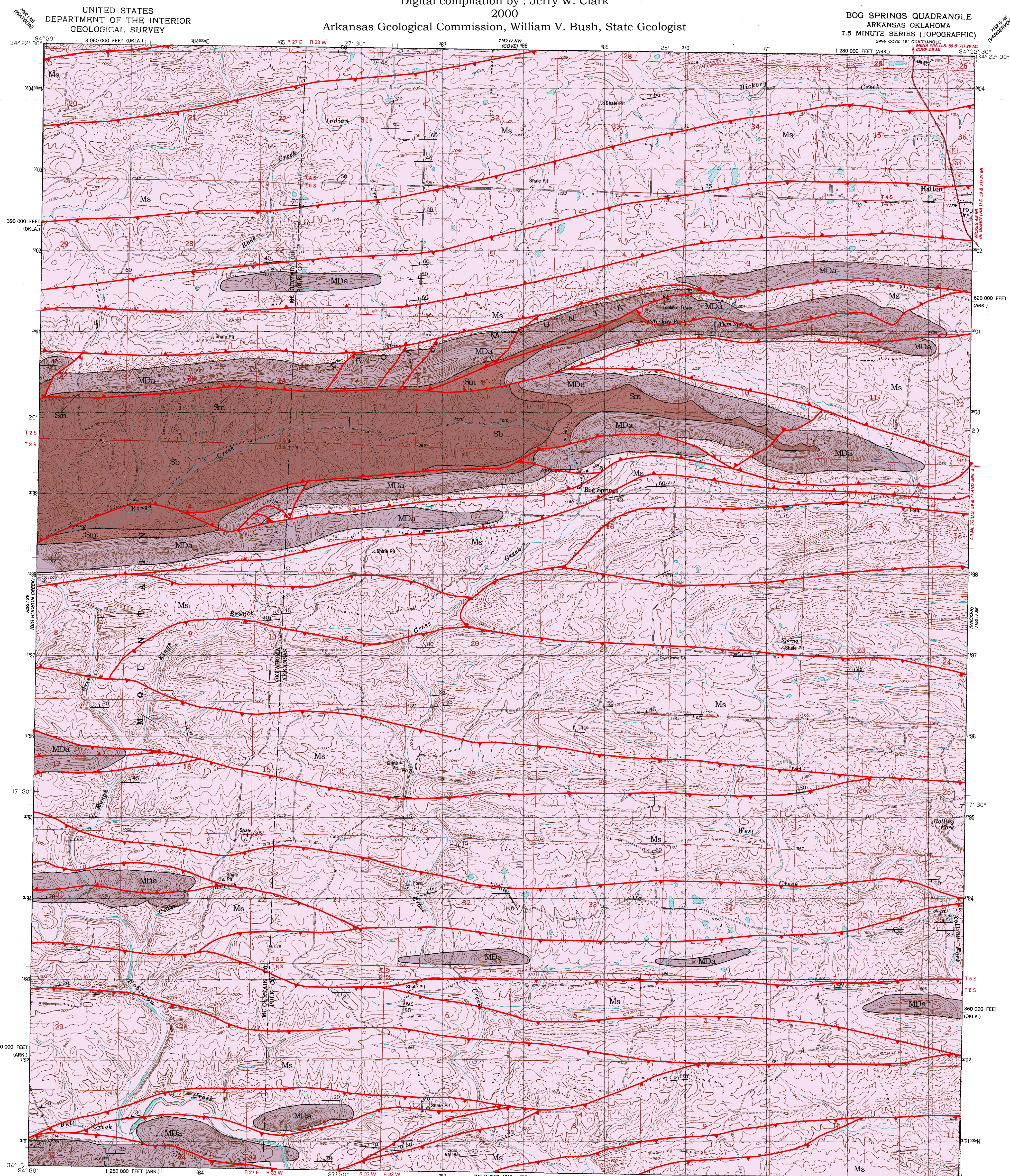
DIGITAL GEOLOGIC MAP OF THE BOG SPRINGS QUADRANGLE, POPE COUNTY, ARKANSAS AND Mc CURTAIN COUNTY, OKLAHOMA

DIGITAL GEOLOGIC QUADRANGLE
BOG SPRINGS, AR-OK
DGM-AR/OK-01051

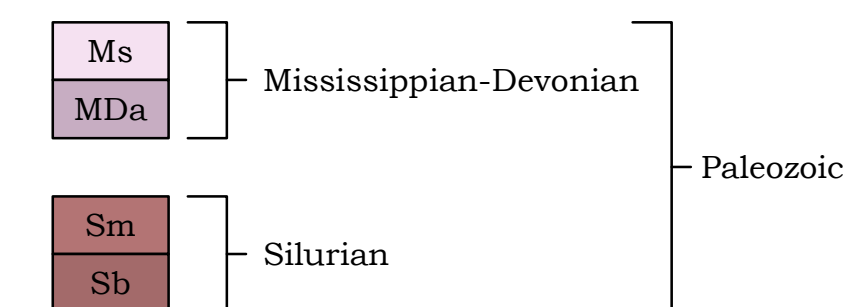
Geology By: Boyd R. Haley and Charles G. Stone
Digital compilation by : Jerry W. Clark
2000

Arkansas Geological Commission, William V. Bush, State Geologist

BOG SPRINGS QUADRANGLE
ARKANSAS-OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)



CORRELATION OF MAP UNITS



DESCRIPTION OF MAP UNITS

- Ms** Stanley Shale (Mississippian) - Stanley is composed of dark-gray shale interbedded with fine-grained sandstone.
- MDa** Arkansas Novaculite (Mississippian-Devonian) - Three divisions of the Arkansas Novaculite are recognized. The lower division is white massive-bedded novaculite with some interbedded gray shales near its base. The middle division is greenish to dark-gray shales interbedded with many thin beds of dark novaculite. The upper division is white, thin bedded, often calcareous novaculite.
- Sm** Missouri Mountain Shale (Silurian)- Shale interbedded with various amounts of conglomerate, novaculite and sandstone. The shales are usually gray, green, black or red but weather to buff, green, yellow or reddish brown.
- Sb** Blaylock Sandstone (Silurian)- Consist of fine to medium-grained sandstone of tan, dark-gray or greenish color, interbedded with dark-colored to black fissile shale.

SYMBOLS

- Strike and Dip
- Overturned Strike and Dip
- Faults
- Contact

REFERENCES

- Haley, B. R., & Stone, C. G., 1994 Geologic Map of the Bog Springs Quadrangle, Polk County Arkansas and Mc Curtain County Oklahoma; AGC Open File Report Scale: 1:24000
- Miser, H. D., and Purdue, A. H., 1929, Geology of the DeQueen and Caddo Gap Quadrangle, Arkansas; United States Geological Survey Bulletin 808, 195 p.
- Honess, C. H., 1923, Geology of the Southern Ouachita Mountains of Oklahoma, Oklahoma Geological Survey, Bulletin 32. 278p.

Acknowledgements: This map was produced for the National Cooperative Geologic Mapping Program (STATEMAP), a matching-funds grant program administered by the U.S. Geological Survey, under Cooperative Agreement Award G16AC00188. Special thanks to the private landowners who graciously allowed access to their properties. Very special thanks to Angela Chandler for serving as principal investigator for this mapping project.

Limitations: This map, like all geologic maps, is based on interpretations which were made from the data available at the time it was created. As work continues and new information is collected, the contacts, structures, and other features depicted on this map may be changed.

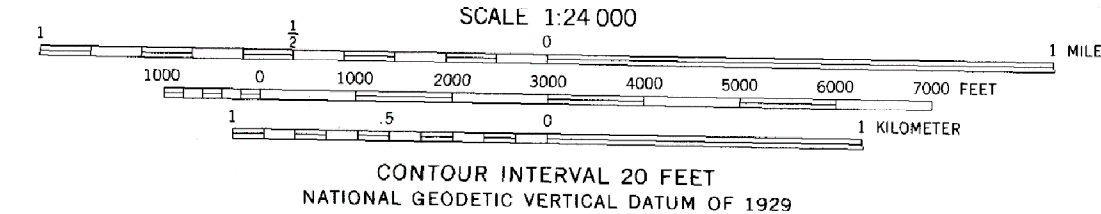
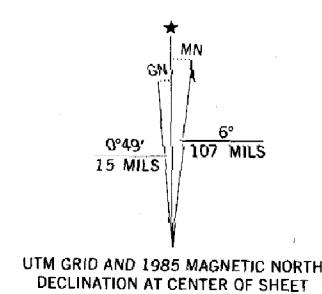
For the latest edition of this and other Arkansas Geological Survey maps and publications, please call Publication Sales at 501-296-1877, or visit the Department of Energy and Environment, Arkansas Geological Survey. This map is also available at: http://www.geology.ar.gov/geologic_maps/dgm24k.htm

Suggested citation for this map:
Boyd R. Haley and Charles G. Stone Geologic map of the Bog Springs Quadrangle, Pope County, Arkansas and Mc Curtain County, Oklahoma, Arkansas Geological Survey, Digital Geologic Map, DGM-AR/OK-01051, 1 sheet, 1:24,000

Map digitized by Jerry W. Clark.

Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs taken 1982. Field checked 1984. Map edited 1985
Projection: Arkansas coordinate system, south zone (Lambert conformal conic)
10,000-foot grid ticks based on Arkansas coordinate system, south zone and Oklahoma coordinate system, south zone
1000-meter Universal Transverse Mercator grid, zone 15
1927 North American Datum
To place on the projected North American Datum 1983, move the projection lines 7 meters south and 19 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 uncorrected



THIS MAP COMPLIES WITH NATIONAL MAP ACTIVITY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, BRUNNEN, COLORADO 80025, OR RESTON, VIRGINIA 22092
AND ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72204
A HOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

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

BOG SPRINGS, ARK.-OKLA.
7.5 MINUTE SERIES (TOPOGRAPHIC)
34094-C4-TF-024

1985
DMA 7152 IV SW-SERIES V884

Revised by: Jerry W. Clark
Revision Date: 4/22/2021

