

Arkansas Geological Commission Template for 1:24,000 Scale Geologic Maps

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This template (available at <http://ngmdb.usgs.gov/Info/dmt/docs/hanson06a.pdf>) was developed by the staff at the Arkansas Geological Commission for use in the layout of 1:24,000 scale geologic maps. The basic framework for this template was derived from various layout styles at DMT conferences, published U.S. Geological Survey geologic maps, and geologic maps produced by the Arkansas Geological Commission. Features included with this geologic map are the correlation chart, stratigraphic column, map unit description, cross section, joint frequency diagrams, symbols legend, state or agency seal, references, and disclaimer. Not all of these features occur on each of our maps, and layout size ranges from a minimum of 30 x 36 to a maximum of 42 x 36 inches for most maps.

The standardizing of fonts and creation of specialized symbol palettes is of great importance, as it will save much time and effort. Times New Roman font is used for text and symbols. Text is 12 point, while section headers are 16 point. The title block has various font sizes. The title itself is 36 point, the authorship and date published are 16 point, and the Director's name and agency are 18 point. The series and reference numbers are 10 point and located in the northeast corner of the layout. The disclaimer is 8 point and placed under the symbol legend if space permits. Revision dates are located in the lower right corner of the layout and are 10 point. The state or agency seal is placed in the extreme lower right corner of the layout and is 2 inches square. Formation contact lines

are black and 1.0, and the formation symbols are 12 point. Colors used to signify different formations were adopted from the most current state geologic map, which was published by the U.S. Geological Survey.

Symbols used on the map are variable, but the decision was made to make them large enough to be easily found on the map. It must be understood that different symbol palettes will require different symbol sizes. This is another reason to create customized symbol palettes. Symbols for mines, quarries, and pits are 30 point. Strike and dip symbols are 60, while overturned strike and dip symbols are 30. The accompanying number is 8 point. Thrust fault, normal fault, syncline axis, anticline axis, and monocline axis lines are 2 point. Symbols accompanying synclines, anticlines, and monoclines are 30 point. Daggers for the thrust fault lines are size 10. The line that shows placement of the cross section is 1.5, and lettering is 16 point. The border of the layout has a line weight of 2.5.

In the future, we would like to incorporate digital pictures of interesting geologic features associated with the quadrangle. These images would be placed on the left side of the layout, space permitting.

This template was put together by J.W. Clark and W.D. Hanson for use in constructing 1:24,000 scale geologic maps at the Arkansas Geological Commission. By no means is this template engraved in stone. Much leeway is incorporated to give individual authors flexibility in designing their own layout