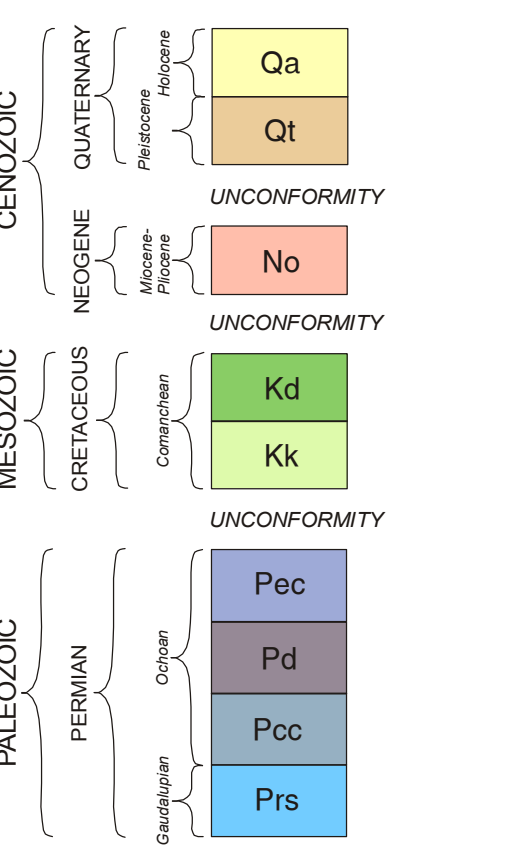
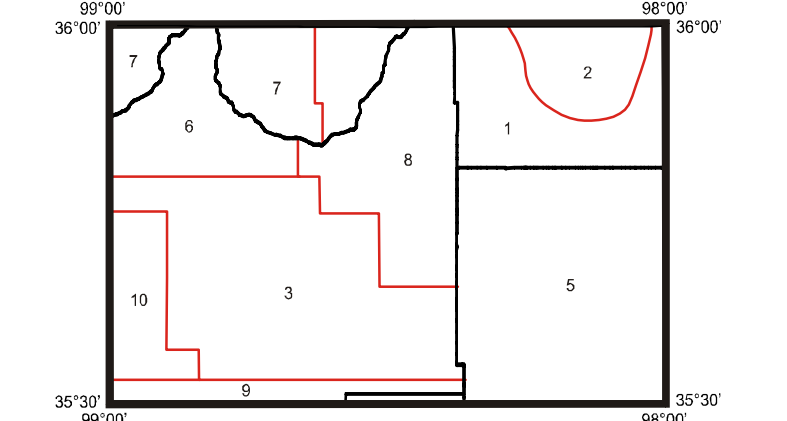


CORRELATION OF UNITS



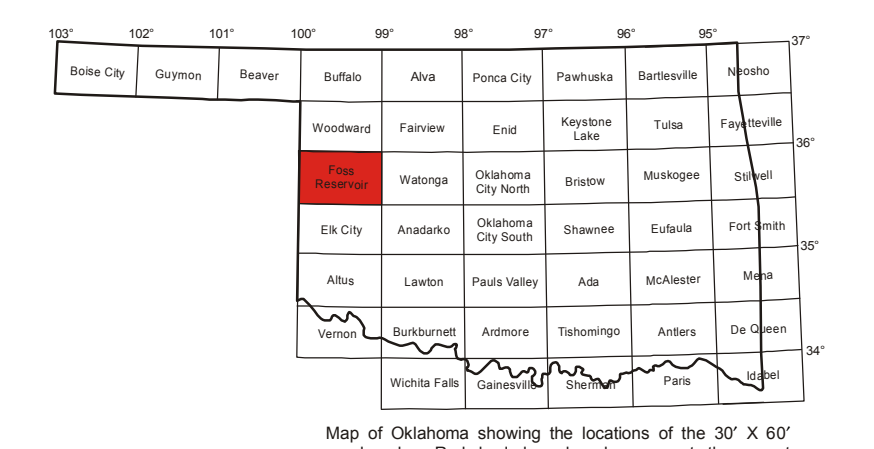
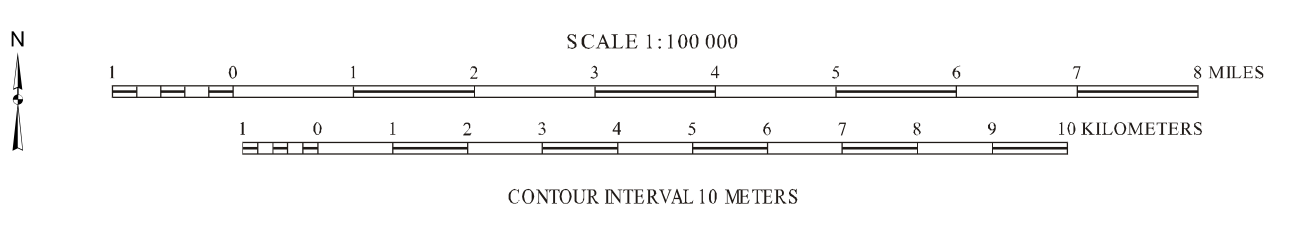
DESCRIPTION OF UNITS

- Qa** ALLUVIUM—Unconsolidated sand, silt, clay, and gravel in stream and river channels and on modern flood plains
- Qt** TERRACE DEPOSITS—Unconsolidated sand, silt, clay, gravel, and volcanic ash above modern flood plains
- No** OGALLALA FORMATION—Gray to light-brown, fine- to medium-grained sand with some clay, silt, gravel, volcanic ash, and caliche beds, locally cemented by calcium carbonate
- Kd** DAKOTA GROUP—Outliers of gray to brown, coarse-grained sandstone and conglomerate
- Kk** KIOWA FORMATION—Outliers of dark-gray shale with some thin beds of fossiliferous tan limestone
- Pec** ELK CITY SANDSTONE—Reddish-brown, fine-grained sandstone with minor amounts of siltstone and claystone, weakly cemented by iron oxide, calcium carbonate, and gypsum
- Pd** DOXEY SHALE—Reddish-brown, silty shale and siltstone
- Pcc** CLOUD CHIEF FORMATION—Reddish-brown to orange-brown shale with siltstone and sandstone in middle part and some dolomite and much gypsum in lower part
- Prs** RUSH SPRINGS FORMATION—Orange-brown, cross-bedded, fine-grained sandstone with some dolomite and gypsum beds



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Base map from a USGS topographic map of the Foss Reservoir quadrangle, dated 1990. Universal Transverse Mercator projection, 1983 North American Datum. Geology controlled by Robert O. Fay, 1996-1997. Geology not field checked. Cartography by M.S. Gregory, 1997. Initial layout by T.M. Ford, 1997, and final layout by G.S. Standridge, 2010. Research supported by the U.S. Geological Survey, National Cooperative Geologic Mapping Program (NCGMP), under task no. 04AC000101. The areas and coordinates contained in this document are those of the author and should not be interpreted as necessarily representing the official position, either expressed or implied, of the U.S. Government. In 1989-1997, the Oklahoma Foss Reservoir quadrangle was compiled to meet CGCS compilation efforts and digital capabilities for the NCGMP 1:100k-scale digital mapping. The digital maps were never published. Currently underway, the geology is being field checked and new mapping being done, where needed. A preliminary geologic map has been made available until a final map can be published.



PRELIMINARY GEOLOGIC MAP OF THE FOSS RESERVOIR 30' X 60' QUADRANGLE, BECKHAM, CUSTER, DEWEY, ELLIS, AND ROGER MILLS COUNTIES, OKLAHOMA
 Compiled Robert O. Fay
 2010