

KANSAS GEOLOGICAL SURVEY
OPEN-FILE REPORT 2000-21

Preliminary Geologic Field Maps for Portions
of Barber County, Kansas

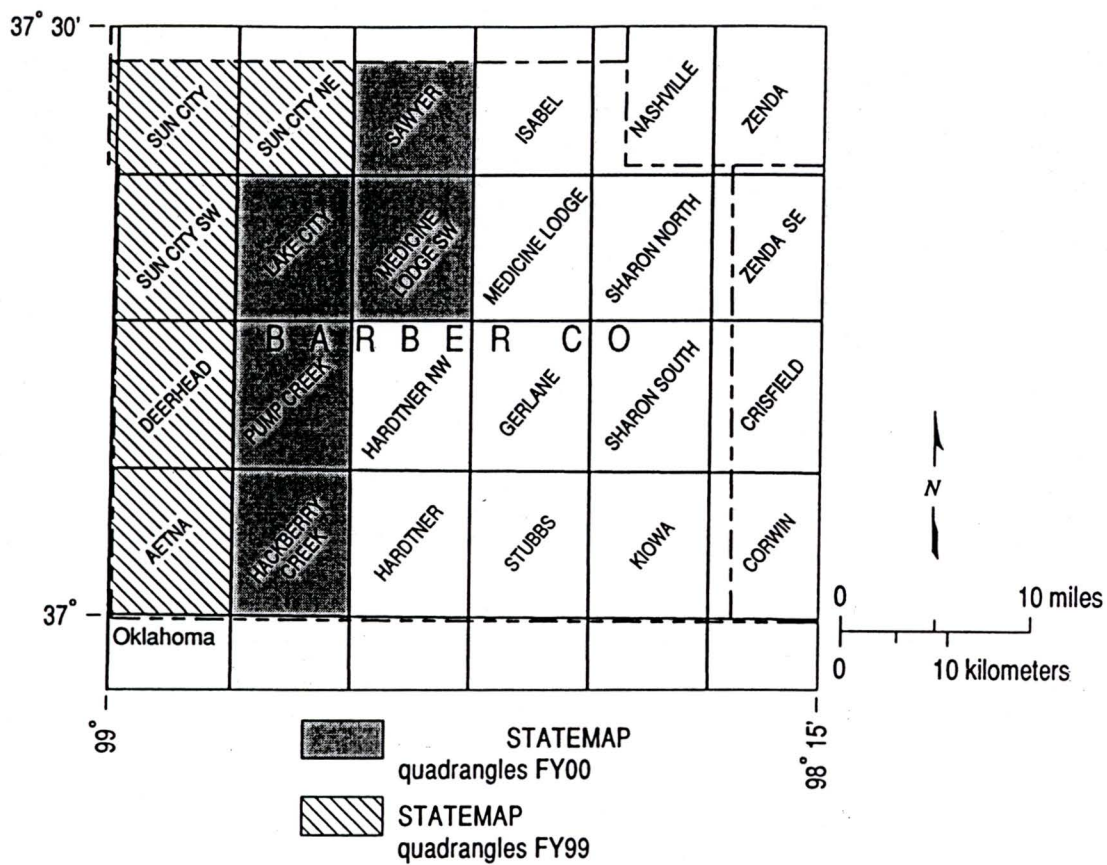
by

James R. McCauley

Disclaimer

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KANSAS GEOLOGICAL SURVEY
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Quadrangle maps covering Barber County with area mapped during FY99, and deliverables of the new mapped area for FY00.

BARBER COUNTY, KANSAS

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Geologic Units

Quaternary

Qds Dune Sand (0-40')

Qal3 Alluvium, below terraces (0-50 ft.)

Qal2 Older alluvium in terraces and lower slopes of valley walls (0-80 ft.)

Quaternary/Tertiary

Qto Ogallala Formation and undifferentiated overlying Quaternary alluvium (0-150 ft.)

Cretaceous

Kc Cheyenne Sandstone (0-50 ft.)

Permian

Pw Whitehorse Formation (270 ft.)
and
Dog Creek Formation (10-20 ft.)

Pb Blaine Formation (0-50 ft.)

Pf Flower Pot Shale (180')

Pc Cedar Hills Sandstone (180')

Additional units that are lower in the stratigraphic column will be added when geologic mapping continues in central and eastern quadrangles of Barber County.

BARBER COUNTY QUADRANGLE MAPS

The following fourteen quadrangle maps are photocopies of field maps submitted by the Kansas Geological Survey as part of the STATEMAP Agreement #01HQPA0003 for FY01 (May 1, 2001 to April 30, 2002). The following quadrangles are added to existing quadrangles from STATEMAP FY99 and FY00 in the **Kansas Geological Survey Open-File Report 2000-21 "Preliminary Geologic Field Maps of portions of Barber County, Kansas"**.

Quadrangles included in the FY01 mapping effort--

Complete Quadrangles

Hardtner NW
Hardtner
Stubbs
Gerlane
Medicine Lodge
Sharon North
Sharon South
Kiowa

Partial Quadrangles

Isabel
Nashville
Zenda
Zenda SE
Crisfield
Corwin

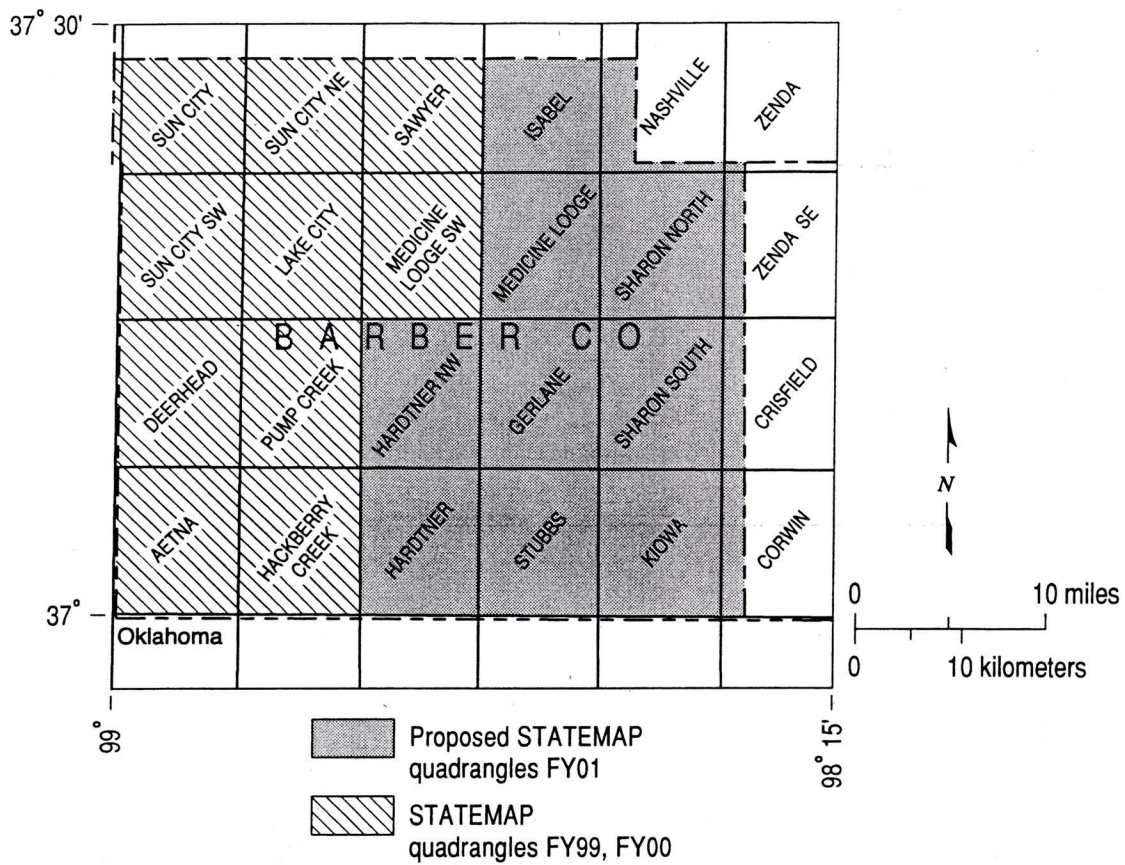


Figure 4--Quadrangle maps covering Barber County, and quadrangle areas within the county proposed for the FY01 STATEMAP project.

BARBER COUNTY, KANSAS

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Geologic Units

Quaternary

Qds Dune Sand (0-40')

Qal3 Alluvium, below terraces (0-50 ft.)

Qal2 Older alluvium in terraces and lower slopes of valley walls (0-80 ft.)

Quaternary/Tertiary

Qto Ogallala Formation and undifferentiated overlying Quaternary alluvium (0-150 ft.)

Cretaceous

Kc Cheyenne Sandstone (0-50 ft.)

Permian

Pw Whitehorse Formation (270 ft.)
and
Dog Creek Formation (10-20 ft.)

Pb Blaine Formation (0-50 ft.)

Pf Flower Pot Shale (180')

Pc Cedar Hills Sandstone (180')

Ps Salt Plain Formation (250')

BARBER COUNTY QUADRANGLE MAPS

The following six quadrangle maps are photocopies of field maps submitted by the Kansas Geological Survey as part of the STATEMAP Agreement #00HQAG0055 for FY00 (May 1, 2000 to April 30, 2001). The following quadrangles are added to existing quadrangles from STATEMAP FY99 in the **Kansas Geological Survey Open-File Report 2000-21 "Preliminary Geologic Field Maps of portions of Barber County, Kansas"**.

Quadrangles included in the FY00 mapping effort--

Complete Quadrangles

Lake City
Pump Creek
Hackberry Creek
Medicine Lodge SW

Partial Quadrangles

Sawyer

BARBER COUNTY QUADRANGLE MAPS

The following six quadrangle maps are photocopies of field maps submitted by the Kansas Geological Survey as part of the STATEMAP Agreement #99HQAG0068 for FY99 (May 1, 1999 to April 30, 2000). The following quadrangles are included in the Kansas Geological Survey Open-File Report 2000-21 "Preliminary Geologic Field Maps of portions of Barber County, Kansas".

Quadrangles included in the FY99 mapping effort--

Complete Quadrangles

Aetna
Deerhead
Sun City SW

Partial Quadrangles

Belvidere*
Sun City
Sun City NE

* **Note**—Belvidere Quadrangle was not included in the original proposal because in Barber County, only a narrow area exists along the west side of the Sun City Quadrangle. However, the quadrangle was mapped and is included with this set of deliverables. Not included in this set of deliverables (and not included in the proposal) is the Wilmore SE quadrangle in Barber County because this area represents a 500 ft wide strip just west of the Sun City SW Quadrangle. This small area was mapped during this contract year and will be included in the final map of Barber County.

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Geologic Units

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Quaternary/Tertiary

Qto Ogallala Formation and undifferentiated overlying Quaternary alluvium (0-150 ft.)

Cretaceous

Kc Cheyenne Sandstone (0-50 ft.)

Permian

Pw Whitehorse Formation (270 ft.)
and
Dog Creek Formation (10-20 ft.)

Pb Blaine Formation (0-50 ft.)

Pf Flower Pot Shale (180')

Pc Cedar Hills Sandstone (180')

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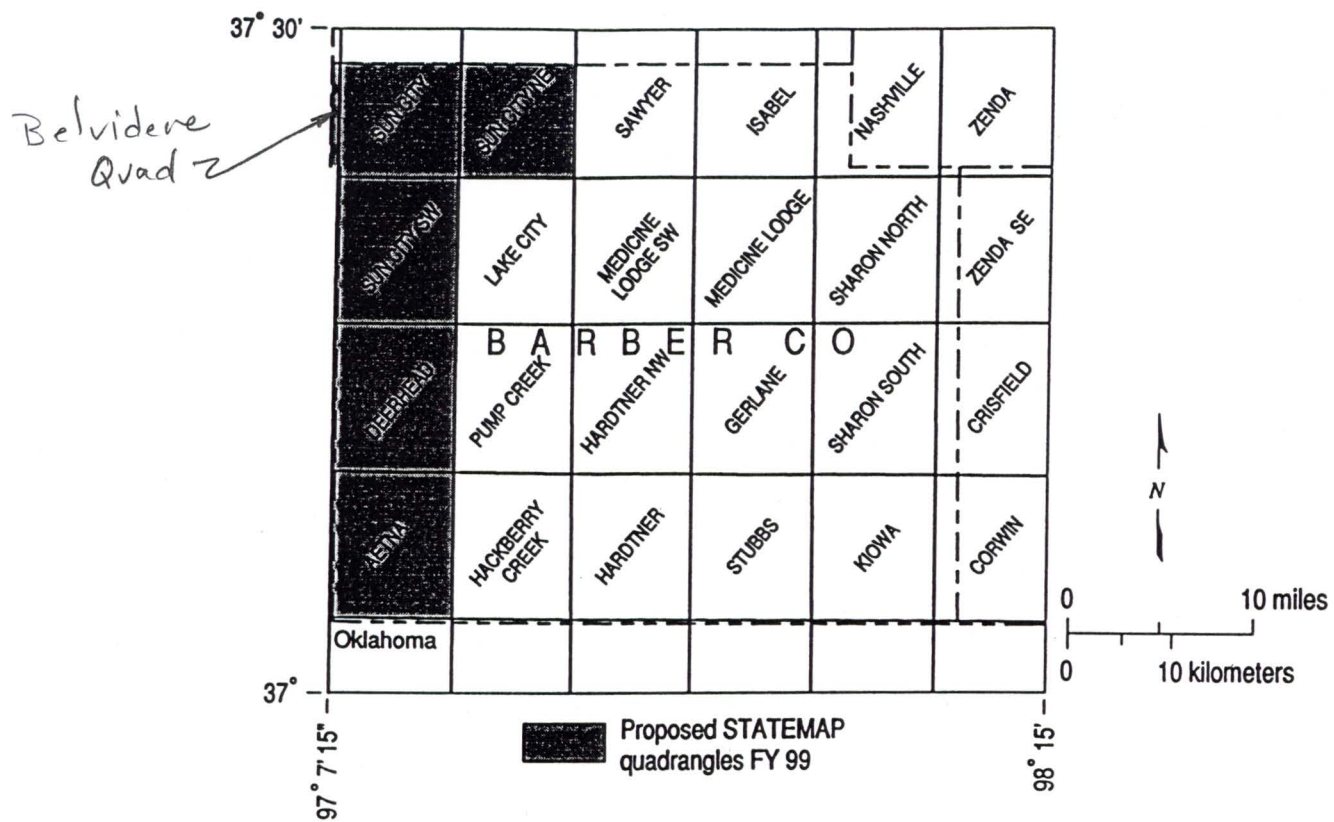


Figure 4--Quadrangle maps covering Barber County, and area within the county proposed for FY99 STATEMAP new mapping effort.