

SCALE 1:125,000  
0 2 4 6 MILES  
0 2 4 6 KILOMETERS

**EXPLANATION**

- Area where the St. Peter Sandstone has been partly or totally eroded
- Structure contours—Drawn on top of the St. Peter Sandstone. Contour interval 10 feet; datum is mean sea level
- Water well or test hole used for control

SCALE 1:125,000  
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0 2 4 6 KILOMETERS

**EXPLANATION**

- Structure contours—Drawn on top of the Prairie du Chien Group; selected contours interrupted in areas with insufficient data. Contour interval 10 feet; datum is mean sea level
- Water well or test hole used for control

SCALE 1:125,000  
0 2 4 6 MILES  
0 2 4 6 KILOMETERS

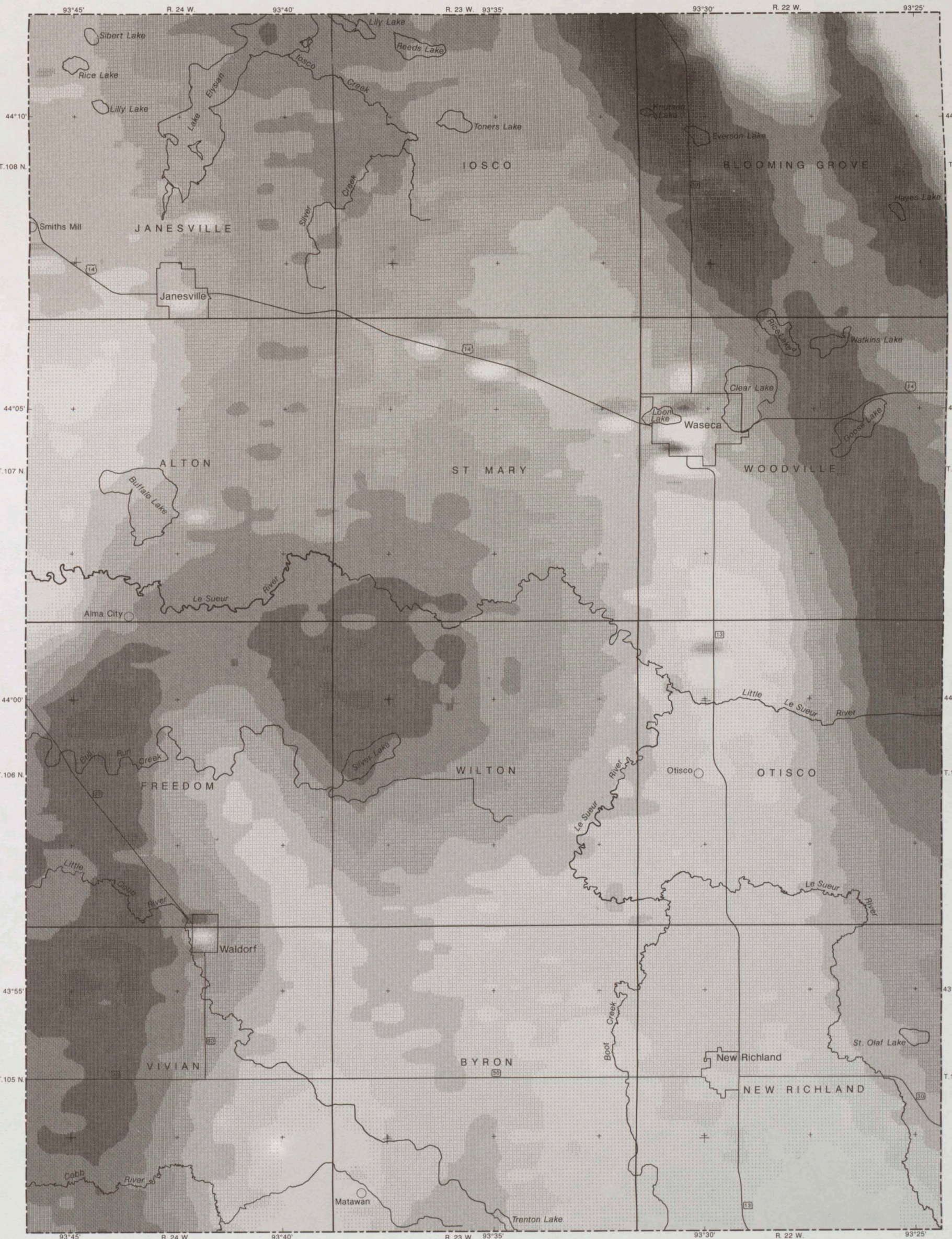
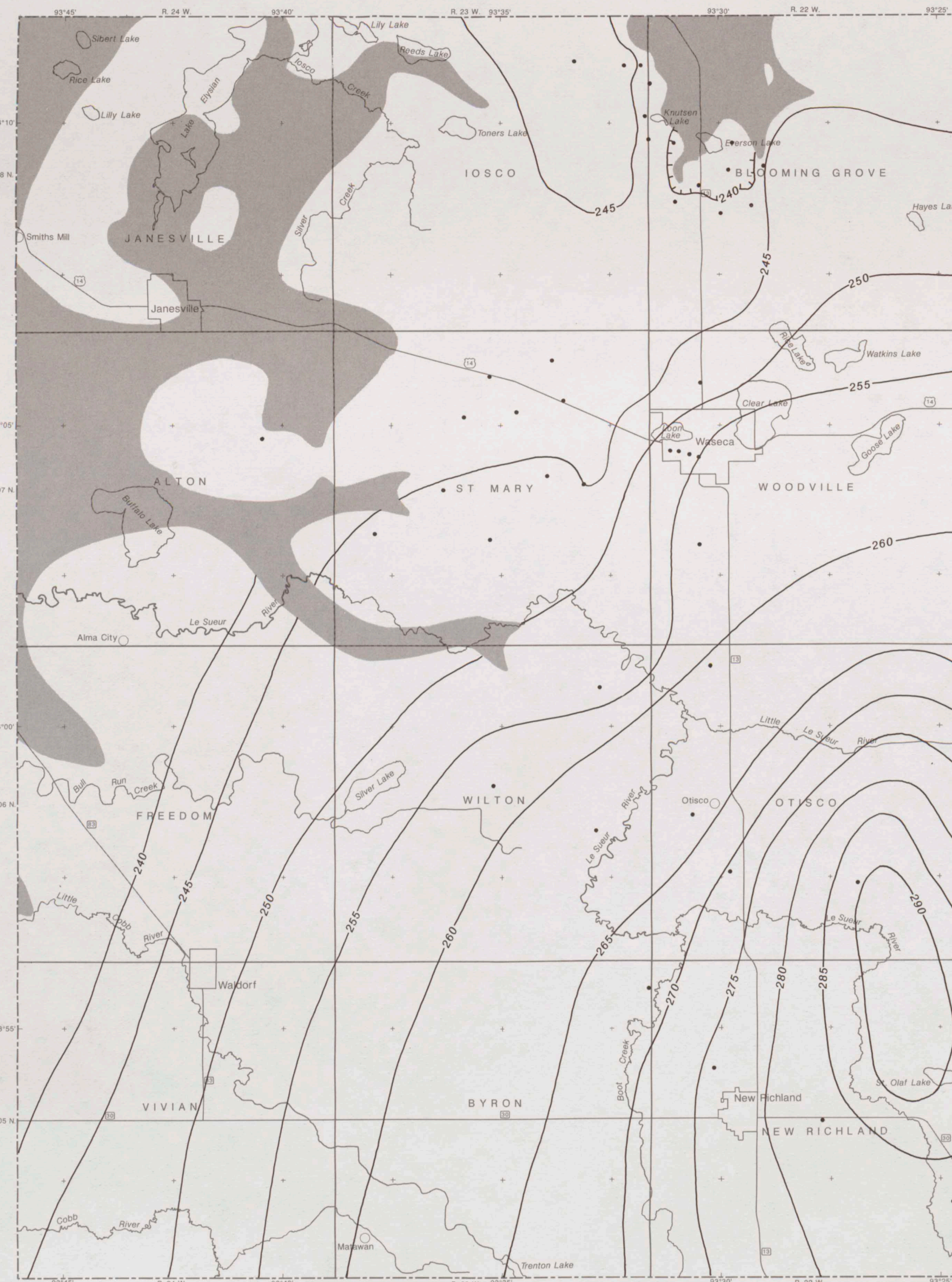
**EXPLANATION**

- Structure contours—Drawn on top of the Jordan Sandstone; selected contours interrupted in area of very steep gradient. Contour interval 10 feet; datum is mean sea level
- Water well or test hole used for control

STRUCTURE MAP OF THE ST. PETER SANDSTONE

STRUCTURE MAP OF THE PRAIRIE DU CHIEN GROUP

STRUCTURE MAP OF THE JORDAN SANDSTONE



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**EXPLANATION**

- Area where the St. Peter Sandstone has been partly or totally eroded
- Isopachs—Lines of equal thickness; contour interval 5 feet
- Water well or test hole used for control

SCALE 1:125,000  
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**EXPLANATION**

- Area where the Prairie du Chien Group has been partly eroded
- Isopachs—Lines of equal thickness; contour interval 5 feet; hachures indicate area of lesser thickness
- Water well or test hole used for control

SCALE 1:125,000  
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**EXPLANATION**

Gray scale showing first vertical derivative of magnetic data in nanoteslas per kilometer. Approximate maximum and minimum values are +1650 (lightest area) and -1470 (darkest area), respectively

The data were acquired along north-south flight lines at one-kilometer (0.62-mile) spacing and 200-meter (656-foot) mean altitude. The data were not reduced to pole

ISOPACH MAP OF THE ST. PETER SANDSTONE

ISOPACH MAP OF THE PRAIRIE DU CHIEN GROUP

FIRST VERTICAL DERIVATIVE OF THE MAGNETIC DATA

Planimetric base by Minnesota Geological Survey; adapted from U.S. Geological Survey 1:24,000 topographic quadrangles listed on Plate 1. Polyconic projection. 1927 North American datum.

Every reasonable effort has been made to ensure the accuracy of the factual data on which this map interpretation is based; however, the Minnesota Geological Survey does not warrant or guarantee that there are no errors. Users may wish to verify critical information; sources include both the references listed here and information on file at the offices of the Minnesota Geological Survey in St. Paul. In addition, effort has been made to ensure that the interpretation conforms to sound geologic and cartographic principles. No claim is made that the interpretation shown is rigorously correct, however, and it should not be used to guide engineering-scale decisions without site-specific verification.

BEDROCK GEOLOGY OF WASECA COUNTY, MINNESOTA

By  
Bruce A. Bloomgren  
1993