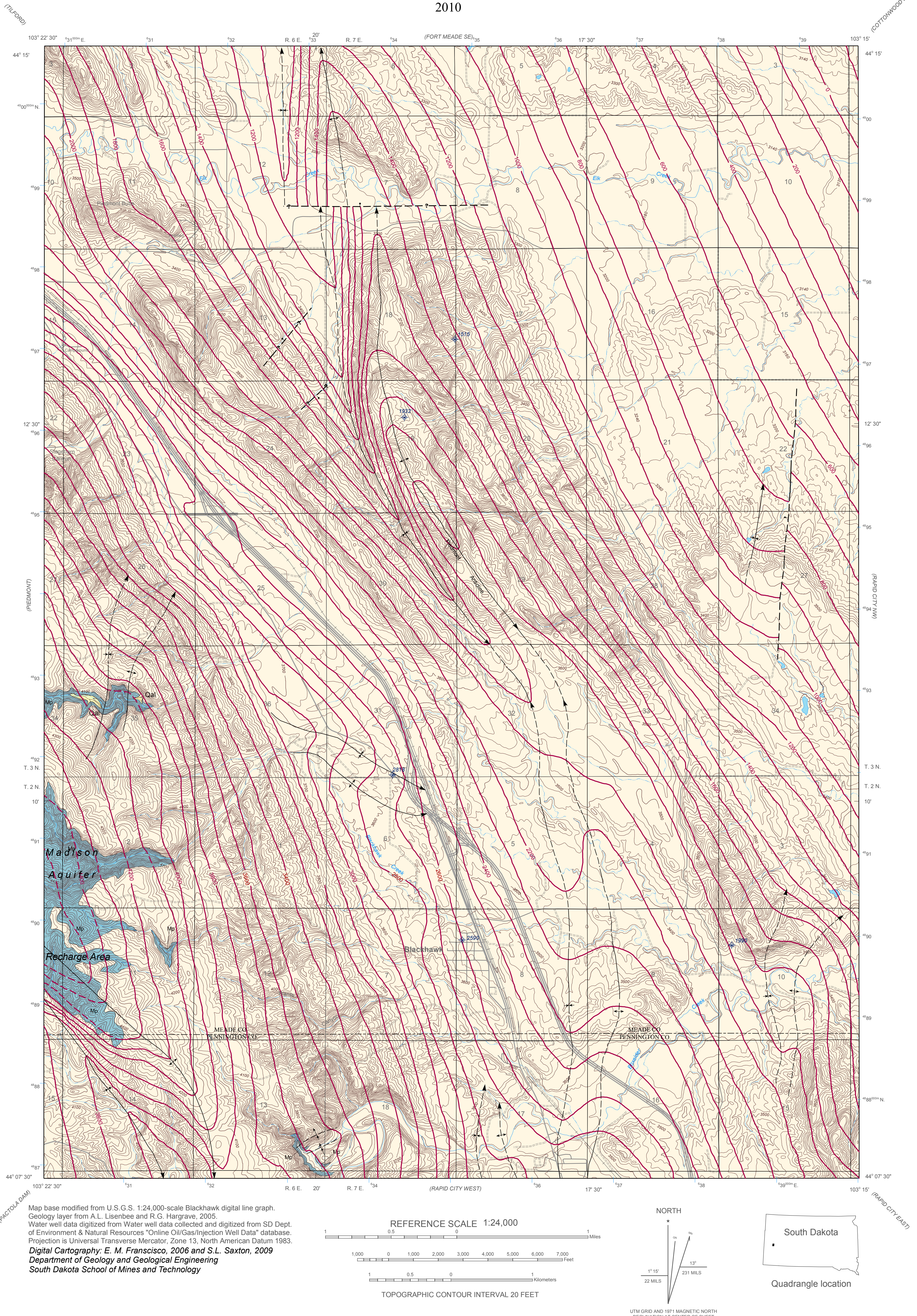


Structural Contour Map, Top of Pahasapa Limestone (Madison Aquifer), Blackhawk Quadrangle

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Structural Contours

Structural contours mark lines of equal elevation of the top of a geological formation. The contours help to define unseen folds and faults present below the land surface. Dashed where projected above surface. Number indicates elevation above sea level.

3400

Structural Contour on top of Pahasapa Formation

Structural Contour Interval 100 feet

EXPLANATION

- 3565 Wells penetrating Madison Aquifer
number indicates elevation of top of Pahasapa Fm, in feet
- Trail
Unimproved Road
Paved Road
Highway
Interstate
Railroad
Lake
Intermittent Stream
Perennial Stream

- Contact
Solid where location certain; dashed where approximately located.
- Fault
Solid where location certain; dashed where approximately located. Bar and ball on downthrown side.
- Anticline
Showing crestline and direction of plunge. Solid where location certain; dashed where approximately located.
- Syncline
Showing troughline and direction of plunge. Solid where location certain; dashed where approximately located.
- Monocline - Anticlinal bend
Axis located on steepest part of structure. Solid where location certain; dashed where approximately located.
- Monocline - Synclinal bend
Axis located on steepest part of structure. Solid where location certain; dashed where approximately located.

Geologic Units

Quaternary

Qal

Alluvium
Unconsolidated to loosely consolidated, clasts to boulder-size; deposited in present-day drainages.

Lower Mississippian

Mp

Pahasapa Limestone - Recharge Area
White, beige and gray limestone and dolomite. Contains thin lenses and beds of gray to brown chert, local solution breccia, and caves.

Disconformity

Pahasapa Limestone Present in Subsurface