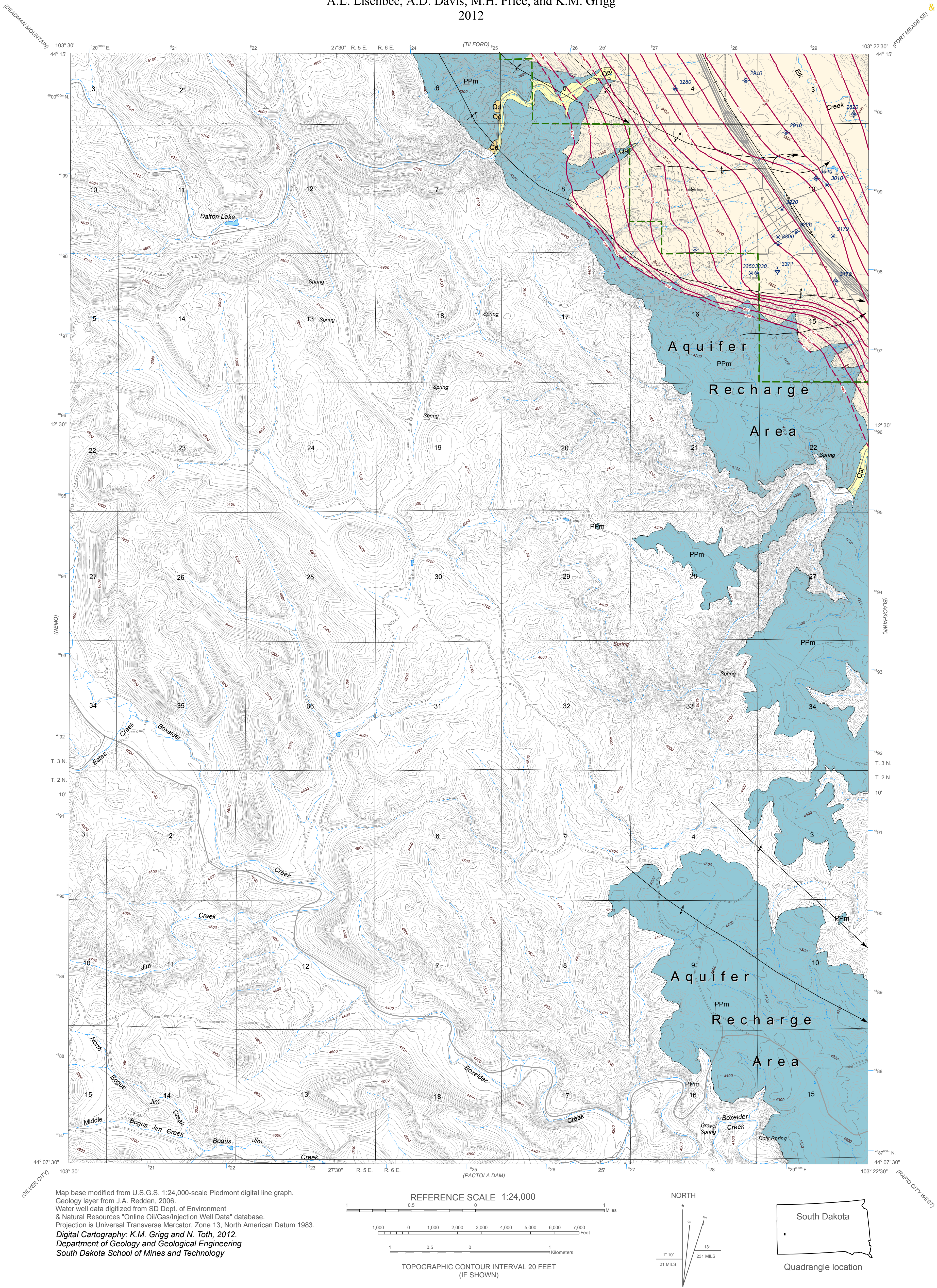


Structural Contour Map, Top of Minnelusa Formation, Piedmont Quadrangle

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EXPLANATION

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.

Structural Contour on top of Minnelusa Formation

Structural Contour Interval 100 feet

- Wells penetrating Minnelusa Aquifer
Number indicates elevation of top of Minnelusa Fm, in feet
- Trail
- Unimproved Road
- Paved Road
- Highway
- Interstate
- Railroad
- Lake
- Intermittent Stream
- Perennial Stream
- Black Hills National Forest Boundary

- Contact
Solid where location certain; dashed where approximately located.
- 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** Floodplain Surficial Deposits
Includes alluvium (Qal) deposits. Increased potential for infiltration of water.
- Qd** Other Surficial Deposits
Includes debris flow (Qd) deposits. Decreased potential for infiltration of water.

Unconformity

Pennsylvanian

- PPm** Minnelusa Formation - Recharge Area
Beige, white, and gray colored unit dominated carbonates and anhydrite with an upper sandstone unit.
- Minnelusa Formation Absent**
- Minnelusa Formation Present in Subsurface**