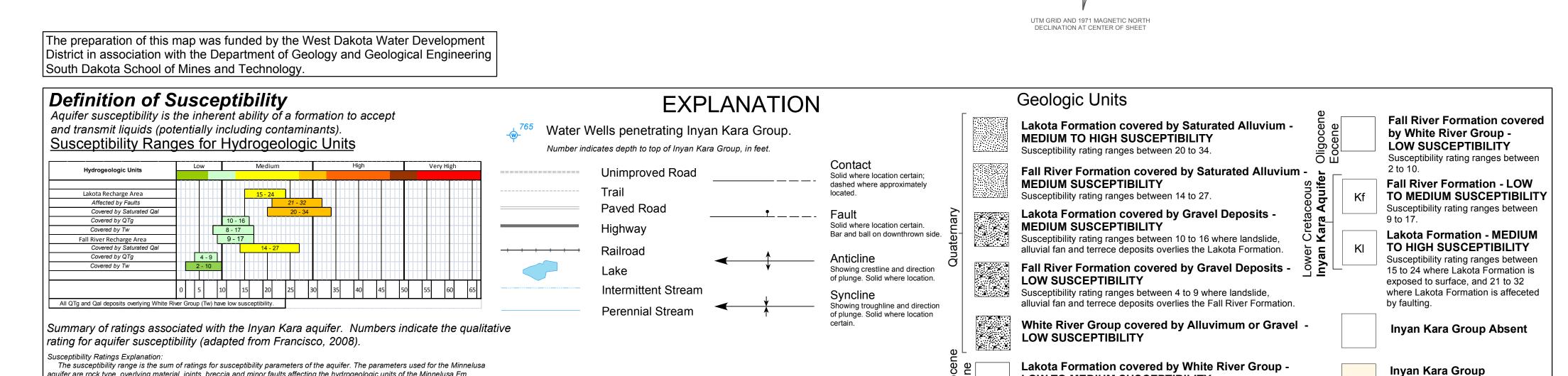


Aquifer Susceptibility Map of Inyan Kara Group, Hermosa NW Quadrangle



A.L. Lisenbee, A.D. Davis, M.H. Price and H.W. Tiruneh 2012 12' 30" Gobbler Knob Spring Creek Potato Butte 9 T. 2 S.



(HERMOSA)

REFERENCE SCALE 1:24,000

TOPOGRAPHIC CONTOUR INTERVAL 20 FEET

1,000 2,000

NORTH

21 MILS

231 MILS

LOW TO MEDIUM SUSCEPTIBILITY

Susceptibility rating ranges between 8 to 17.

South Dakota

Quadrangle location

Present in Subsurface

R. 8 E.

Map base modified from U.S.G.S. 1:24,000-scale Hermosa NW digital line graph. Water well data collected and digitized from SD Dept. of Environment & Natural

Geology layer from A.L. Lisenbee, C.J. Pellowski, and C.M. Hocking 2005 (Unpublished).

Projection is Universal Transverse Mercator, Zone 13, North American Datum 1983.

Digital Cartography: E. M. Francisco and H. W. Tiruneh, 2012

Resources "Online Oil/Gas/Injection Well Data" database.

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aquifer are rock type, overlying material, joints, breccia and minor faults affecting the hydrogeologic units of the Minnelusa Fm.

Minor Faults; 4-6. All minor faults within aquifer recharge area are buffered 100 ft in all directions.

The ratings for these parameters are: Rock Type; 5-8 for combined sandstone and mudstone; Overlying Material; Plus 5-10

for alluvium and minus 5-10 for gravel, sand, clay and White River Group mixture; Joints; 5-7; Stacking of Channels; 1-8; Breccia; 5-7 and;

103° 15'