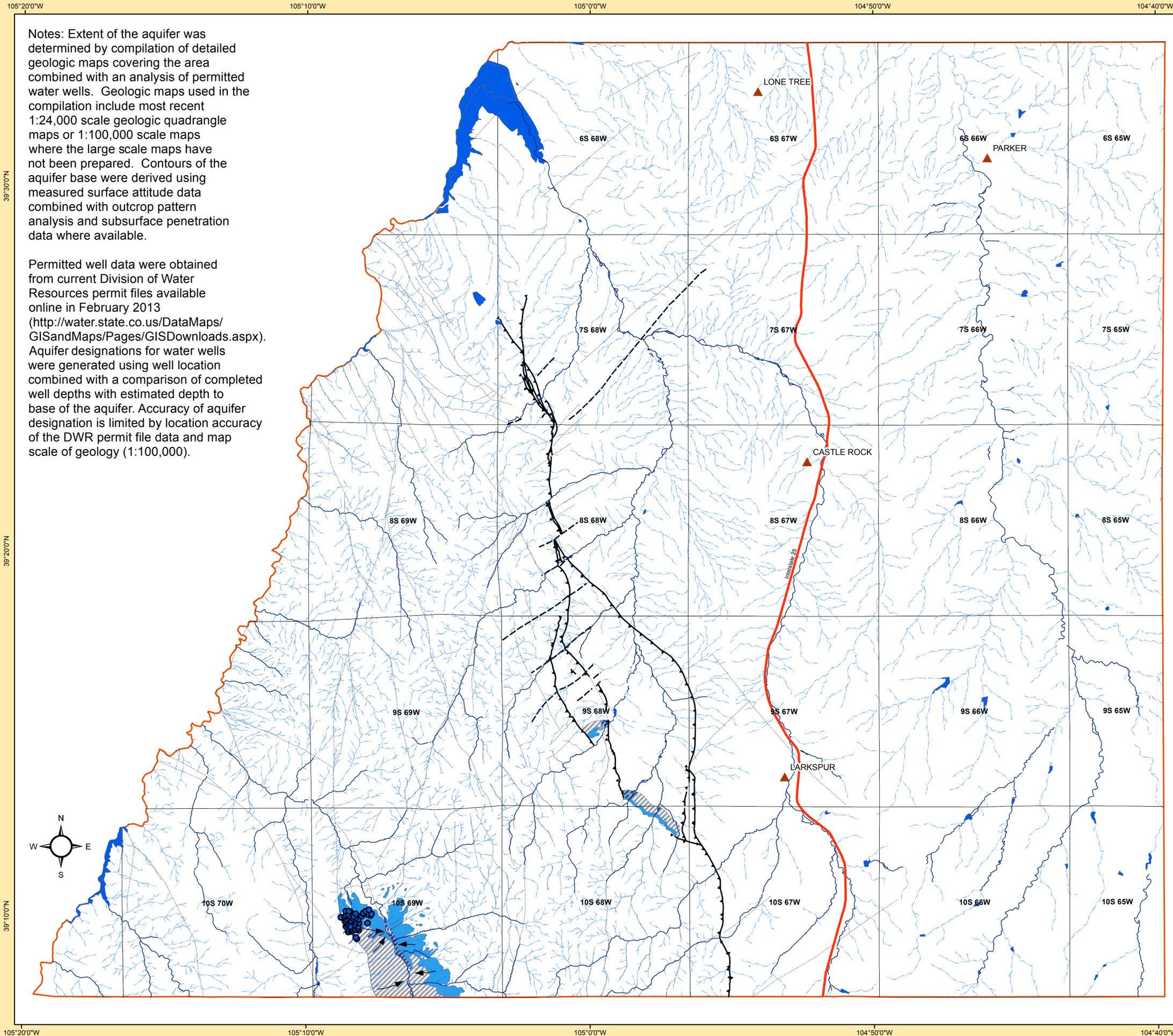


Plate 4 Douglas County Geology and Groundwater Resources Older Paleozoic Unit Extent Map

COLORADO GEOLOGICAL SURVEY
COLORADO SCHOOL OF MINES
GOLDEN, COLORADO

GEOLOGY AND GROUNDWATER RESOURCES
DOUGLAS COUNTY, COLORADO
OPEN FILE REPORT 15-10
Plate 4 of 20

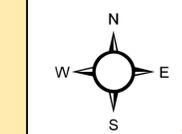


Notes: Extent of the aquifer was determined by compilation of detailed geologic maps covering the area combined with an analysis of permitted water wells. Geologic maps used in the compilation include most recent 1:24,000 scale geologic quadrangle maps or 1:100,000 scale maps where the large scale maps have not been prepared. Contours of the aquifer base were derived using measured surface attitude data combined with outcrop pattern analysis and subsurface penetration data where available.

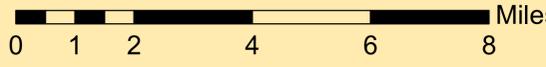
Permitted well data were obtained from current Division of Water Resources permit files available online in February 2013 (<http://water.state.co.us/DataMaps/GISandMaps/Pages/GISDownloads.aspx>). Aquifer designations for water wells were generated using well location combined with a comparison of completed well depths with estimated depth to base of the aquifer. Accuracy of aquifer designation is limited by location accuracy of the DWR permit file data and map scale of geology (1:100,000).

Legend

- Towns and Cities
- Interstate 25
- Intermittent Streams
- Perennial Streams
- Lakes
- Faults**
 - Normal (known, approximated, & inferred)
 - Reverse (known, approximated, & inferred,)
 - Not Defined (concealed, approximated, & inferred)
- Townships
- Older Paleozoic Unit Extent**
 - Older Paleozoic unit wells
 - Estimated groundwater flow direction
 - Older Paleozoic unit, outcrop
 - Older Paleozoic unit, concealed
 - Older Paleozoic unit intersecting alluvium



Universal Transverse Mercator, Zone 13, NAD 83



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