

Douglas County Geology and Groundwater Resources Dawson Arkose Aquifer Depth Map

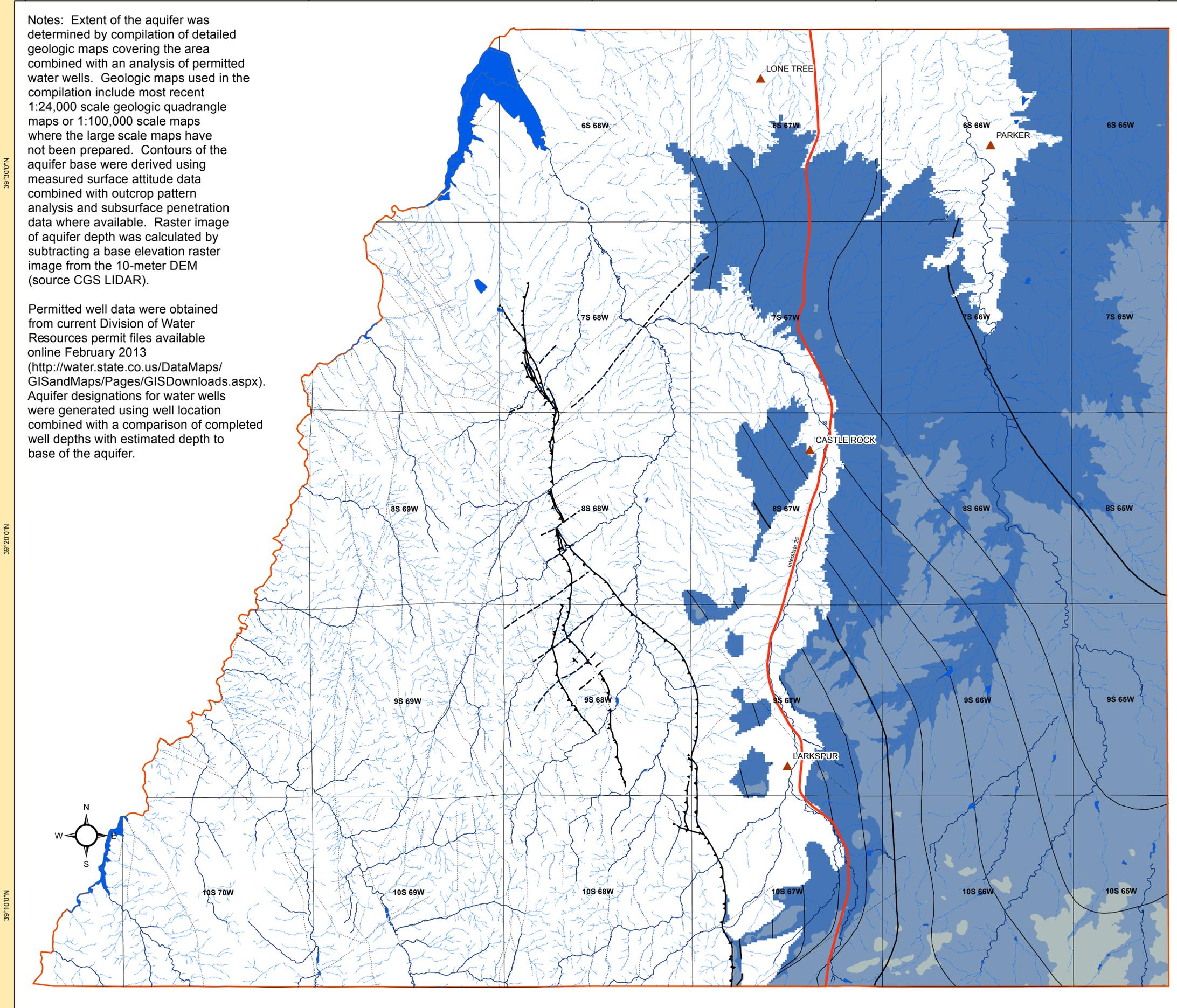
COLORADO GEOLOGICAL SURVEY
COLORADO SCHOOL OF MINES
GOLDEN, COLORADO

GEOLOGY AND GROUNDWATER RESOURCES
DOUGLAS COUNTY, COLORADO
OPEN FILE REPORT 15-10
Plate 19 of 20

105°20'0"W 105°10'0"W 105°0'0"W 104°50'0"W 104°40'0"W

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. Raster image of aquifer depth was calculated by subtracting a base elevation raster image from the 10-meter DEM (source CGS LIDAR).

Permitted well data were obtained from current Division of Water Resources permit files available online 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.



Legend

- ▲ Towns and Cities
- Interstate 25
- Lakes
- Intermittent Streams
- Perennial Streams

Faults

- - - Normal (known, approximated, & inferred)
- Reverse (known, approximated, & inferred)
- ⋯ Not Defined (concealed, approximated, & inferred)

Dawson Arkose Aquifer Contours

- 500 ft contour, with control
- 100 ft contour, with control

Dawson Arkose base depth
Aquifer base depth range (in feet below ground)

- < 500
- 500 - 1,000
- 1,000 - 1,500
- 1,500 - 3,500

105°20'0"W 105°10'0"W 105°0'0"W 104°50'0"W 104°40'0"W

Universal Transverse Mercator, Zone 13, NAD 83



COLORADO GEOLOGICAL SURVEY
COLORADO SCHOOL OF MINES