

NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES

# Representative Hydrographs and Groundwater Surface of Union County and the Clayton Underground Water Basin, northeast New Mexico

Open-file Report 570  
Plate 2  
April 2015  
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**Well Information**

- Well ID
- Water level elevation
- Date of measurement

**Hydrograph Regions**

1. Capulin Basin and Northwest
2. Dry Cimarron River drainage
3. Central Uplands
- 4, 5, & 6. East-Central irrigated regions
7. South Central
8. Southeast panhandle.

**NMBGMR / NESWCD wells**

- Ogallala Fm/Upland deposits/Basalt
- Ogallala Fm
- Dakota Fm
- Lower Cretaceous Sandstone
- Morrison Fm or Entrada Fm
- Entrada Fm
- Triassic undiv

**OSE NMWRSS wells**

- Ogallala Fm/Upland deposits/Basalt
- Ogallala Fm
- Cretaceous Shale above Dakota Fm
- Dakota Fm
- Lower Cretaceous Sandstone
- Morrison Fm or Entrada Fm
- Entrada Fm
- Triassic undiv

**Water Level Contours**

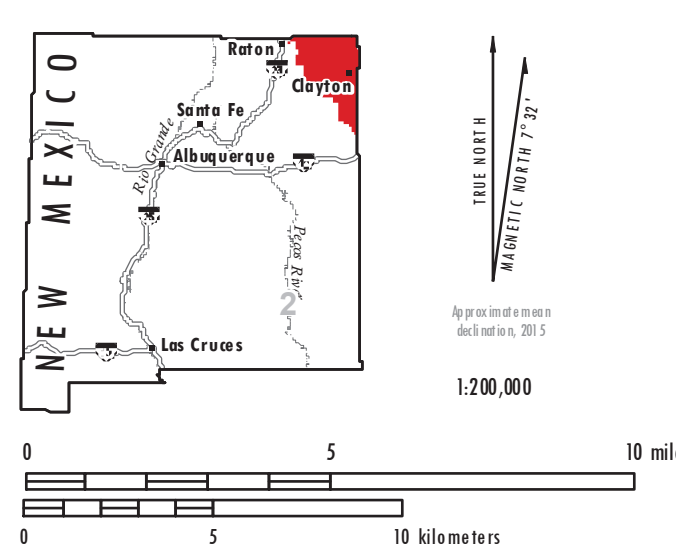
- approximate
- certain

**Hydrology**

- Spring with elevation
- Perennial stream reaches
- Other drainages

**Surface Elevation**

- 8813 feet
- 3779 feet



**Comments to Map Users**  
The purpose of this map is to illustrate important aspects of regional groundwater conditions. Groundwater elevation data depicted herein were derived primarily from depths-to-water measurements taken between December 2012 and March 2013 by the New Mexico Bureau of Geology and Mineral Resources (NMBGMR) at New Mexico Tech, the Northeast Soil and Water Conservation District, and the US Geological Survey. In locations where these recent data were not available, static water levels were used from selected well records in the state New Mexico Office of the State Engineer. Land surface elevations used to derive groundwater elevation values originated from a 10-m digital elevation model (DEM). Groundwater levels in the vicinity of wells may fluctuate significantly with pumping. The user should be aware that the groundwater elevation data face reflects conditions during the time of 2012-2013. Current groundwater conditions may differ from those shown. Site- and time-specific conditions should be verified by the user. All additional information contained on this map, other than groundwater elevation data, not available static water levels were used from selected well records in the state New Mexico Office of the State Engineer. Land surface elevations used to derive groundwater elevation values.

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