NEW MEXICO BUREAU OF GEOLOGY AND MINERAL RESOURCES A DIVISION OF NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY

Holocene Late Pleistocene

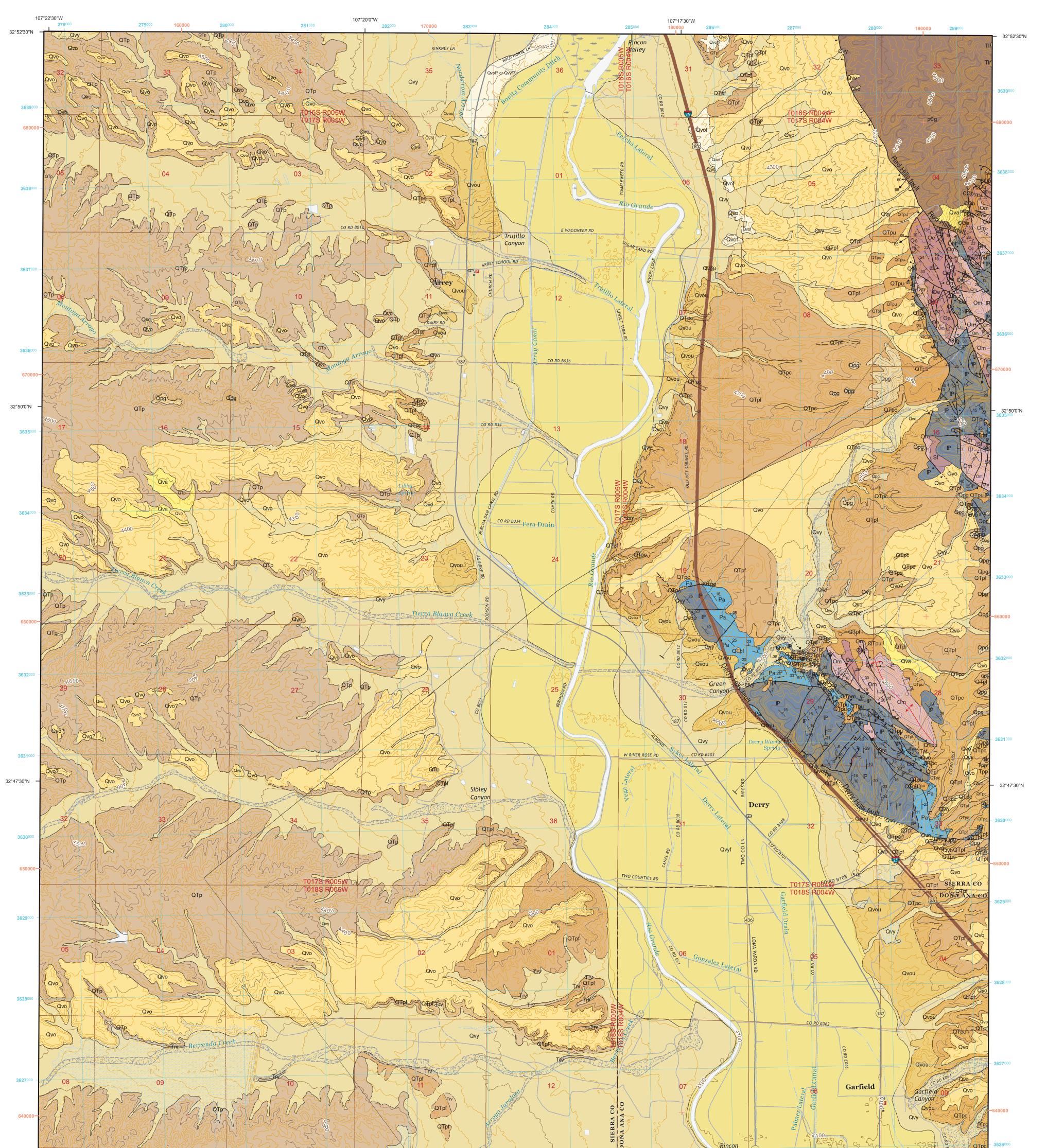
Miocene

Latest Eocene to early Oligocene

Pennsylvanian

Devonian

Om



285⁰⁰⁰ 180000 107°17'30"W 1:24,000 1 0.5 0 1000 0 1000 2000 3000 4000 5000 6000 7000 Feet Contour Interval 20 Feet National Geodetic Vertical Datum 1929 New Mexico Bureau of Geology and Mineral Resources **Bulletin 128**

Geologic Map of the Garfield 7.5-Minute Quadrangle, Sierra and Dona Ana Counties, New Mexico

Mapping of this quadrangle was funded by the New Mexico Bureau of Geology and Mineral Resources.

Projection and 1,000-meter grid: Universal Transverse Mercator, Zone 13S, shown in blue. 10,000-foot ticks: New Mexico Coordinate System of 1927 (central zone), shown in red.

Quadrangle Location

New Mexico Bureau of Geology and Mineral Resources

New Mexico Tech

801 Leroy Place

Socorro, New Mexico

87801-4796

[575] 835-5490

This and other STATEMAP quadrangles are available for free download in both PDF and ArcGIS formats at:

http://geoinfo.nmt.edu

Digital layout and cartography by the NMBGMR Map Production Group:

Phil L. Miller, Amy L. Dunn, and Katherine J. Sauer

.........IFSAR 4.5 m Digital Terrain Model, 2008 ..FWS National Wetlands Inventory 1977–2014

New Mexico

June 1991

William R. Seagar¹ and Greg H. Mack²

¹Department of Earth Sciences, New Mexico State University, Las Cruces, New Mexico, 88003 ²Department of Earth Sciences, New

A geologic map displays information on the distribution, nature, orientation, and age relationships of rock and deposits and the occurrence of structural features. Geologic and fault contacts are irregular surfaces that form boundaries between different types or ages of units. Data depicted on this geologic quadrangle map may be based on any of the following: reconnaissance field geologic mapping, compilation of published and unpublished work, and photogeologic interpretation. Locations of contacts are not surveyed, but are plotted by interpretation of the position of a given contact onto a topographic base map; therefore, the accuracy of contact locations depends on the scale of mapping and the interpretation of the geologist(s). Any enlargement of this map could cause misunderstanding in the detail of mapping and may result in erroneous interpretations. Site-

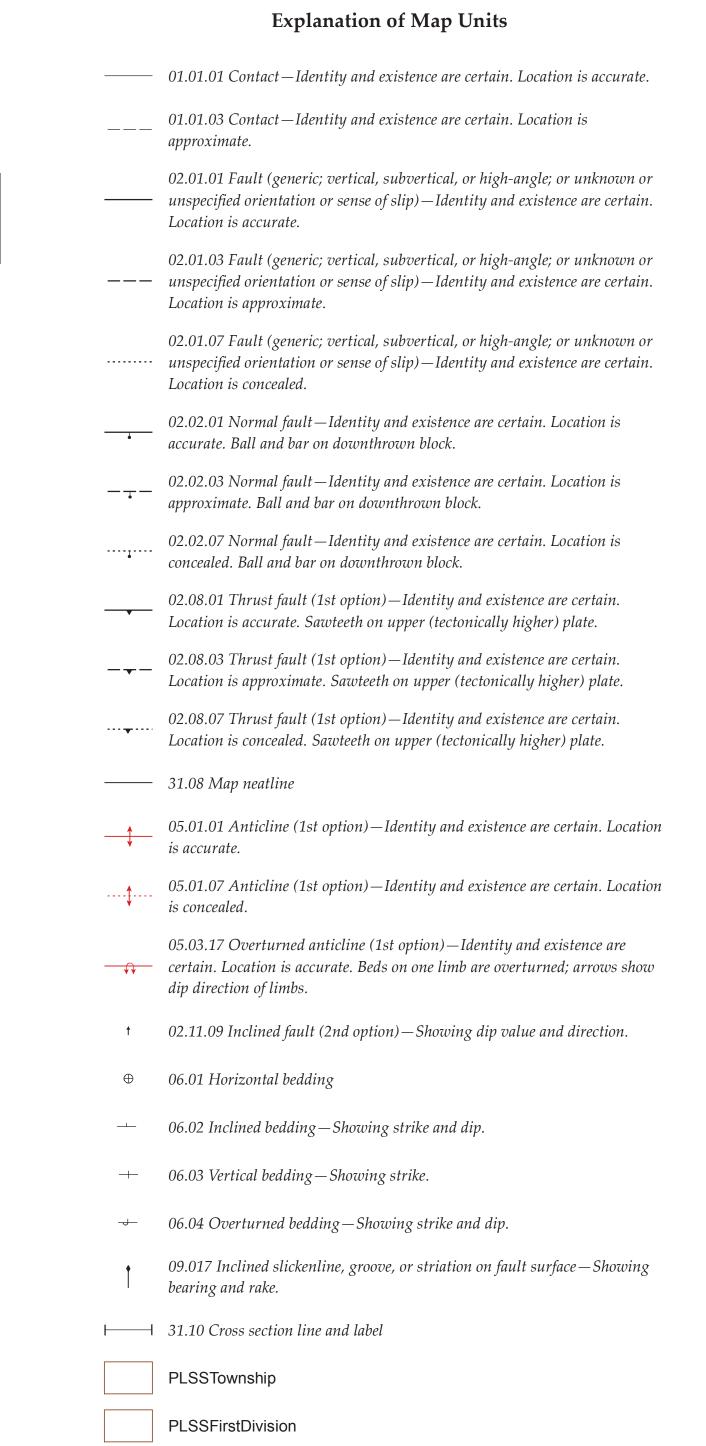
specific conditions should be verified by detailed surface mapping or subsurface exploration. Topographic and

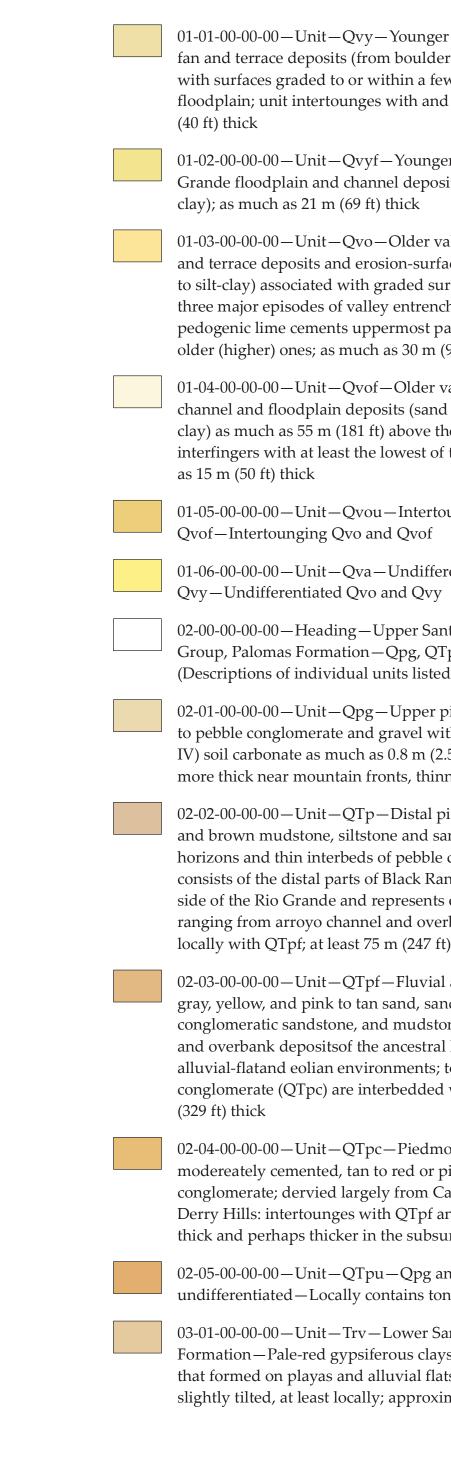
Comments to Map Users

Cross sections are constructed based upon the interpretations of the author made from geologic mapping, and available geophysical, and subsurface (drillhole) data. Cross sections should be used as an aid to understanding the general geologic framework of the map area, and not be the sole source of information for use in locating or designing wells, buildings, roads, or other man-made structures.

cultural changes may not be shown due to recent development.

The New Mexico Bureau of Geology and Mineral Resources created the Open-file Geologic Map Series to expedite dissemination of these geologic maps and map data to the public as rapidly as possible while allowing for map revision as geologists continued to work in map areas. Each map sheet carries the original date of publication below the map as well as the latest revision date in the upper right corner. In most cases, the original date of publication coincides with the date of the map product delivered to the National Cooperative Geologic Mapping Program (NCGMP) as part of New Mexico's STATEMAP agreement. While maps are produced, maintained, and updated in an ArcGIS geodatabase, at the time of the STATEMAP deliverable, each map goes through cartographic production and internal review prior to uploading to the Internet. Even if additional updates are carried out on the ArcGIS map data files, citations to these maps should reflect this original publication date and the original authors listed. The views and conclusions contained in these map documents are those of the authors and should not be interpreted as necessarily representing the official policies, either expressed or implied, of the State of New Mexico, or the U.S. Government.







Description of Map Units

NMBGMR Open-File Geologic Map XXX

Last Modified June 2019

