





Magnetic Declinatio

July, 2018 7º 5' East At Map Center

Quadrangle Location

Digital layout and cartography by the NMBGMR Map Production Group: Phil L. Miller, Amy L. Dunn, Ann D. Knight, and Justine L. Nicolette



New Mexico Bureau of Geology and Mineral Resources **Open-File Geologic Map 284** Mapping of this quadrangle was funded by a matching-funds grant from the STATEMAP program of the National Cooperative Geologic Mapping Act (Fund Number: G19AC00226), administered by the U.S.

Geologic Map of the Red Bluff 7.5-Minute Quadrangle, **Eddy County, New Mexico**

December 2020

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Correlation of Map Units

Geological Survey and by the New Mexico Bureau of Geology and Mineral Resources (Dr. Nelia W. Dunbar, Director and State Geologist; Dr. J. Michael Timmons, Assoc. Director for Mapping Programs)

Comments to Map Users

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map may be based on any of the following: reconnaissance field geologic mapping, compilation of published and unpublished work, and photogeologic interpretation.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 cultural changes may not be shown due to recent development.

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.

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

http://geoinfo.nmt.edu



4.000

Mean Sea Level

3.250 -

2,500 ft Above

Mean Sea Level





Geologic Cross-section A-A' Vertical Exaggeration: 5x

Descripton of Map Units



absent from grainstone beds. Not uncommonly this unit is highly fractured, with fractures variously filled with caliche/carbonate cement, particularly

adjacent to Gatuña Formation caliches; in some places, outcrops consist of carbonate-engulfed dolomite breccia. Preserved unit is about 8–14 m thick.