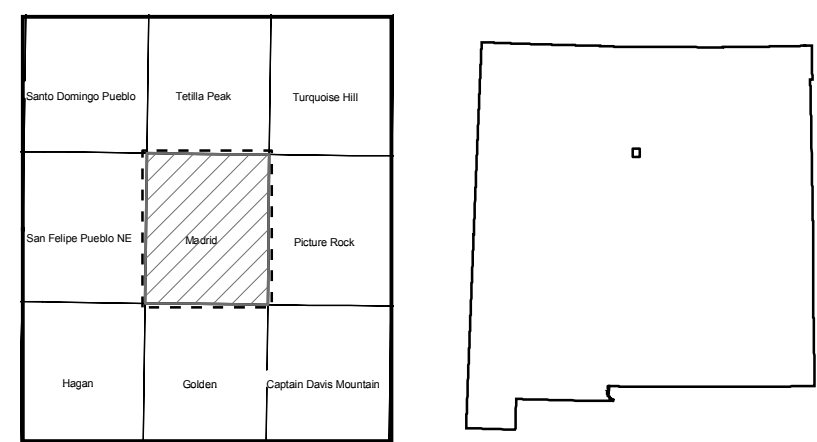
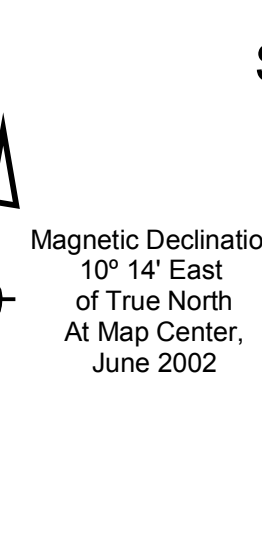
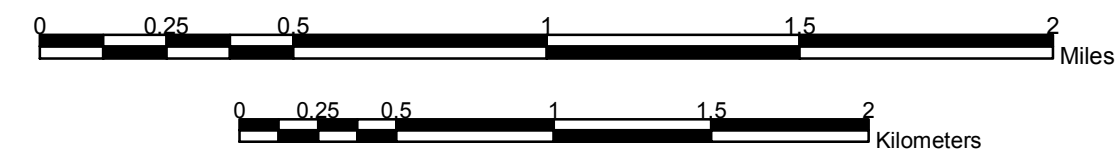


Provisional Base Map U.S. Geological Survey 1990.
 Non-photographic base map and field checked in 1995.
 May edition of 1990.
 1987 North American datum, UTM projection - zone 13.
 1000-meter Universal Transverse Mercator grid zone 13, shown in red.

Geologic Map of the Madrid 7.5 - minute quadrangle
 by
Stephen R. Maynard, David Sawyer, and John Rogers

June 2002

1:24,000



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map may be based on any of the following: reconnaissance field geologic mapping, compilation of published and unpublished work, and photogeologic interpretation.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 of the detail of mapping and may result in erroneous interpretation. Site-specific conditions should be verified by detailed surface mapping or subsurface exploration. Topographic and cultural changes associated with recent development may not be shown.

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.

This map has not been reviewed according to New Mexico Bureau of Geology and Mineral Resources standards. The contents of the report and map should not be considered final and complete until reviewed and published by the New Mexico Bureau of Geology and Mineral Resources. The views and conclusions contained in this document 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.

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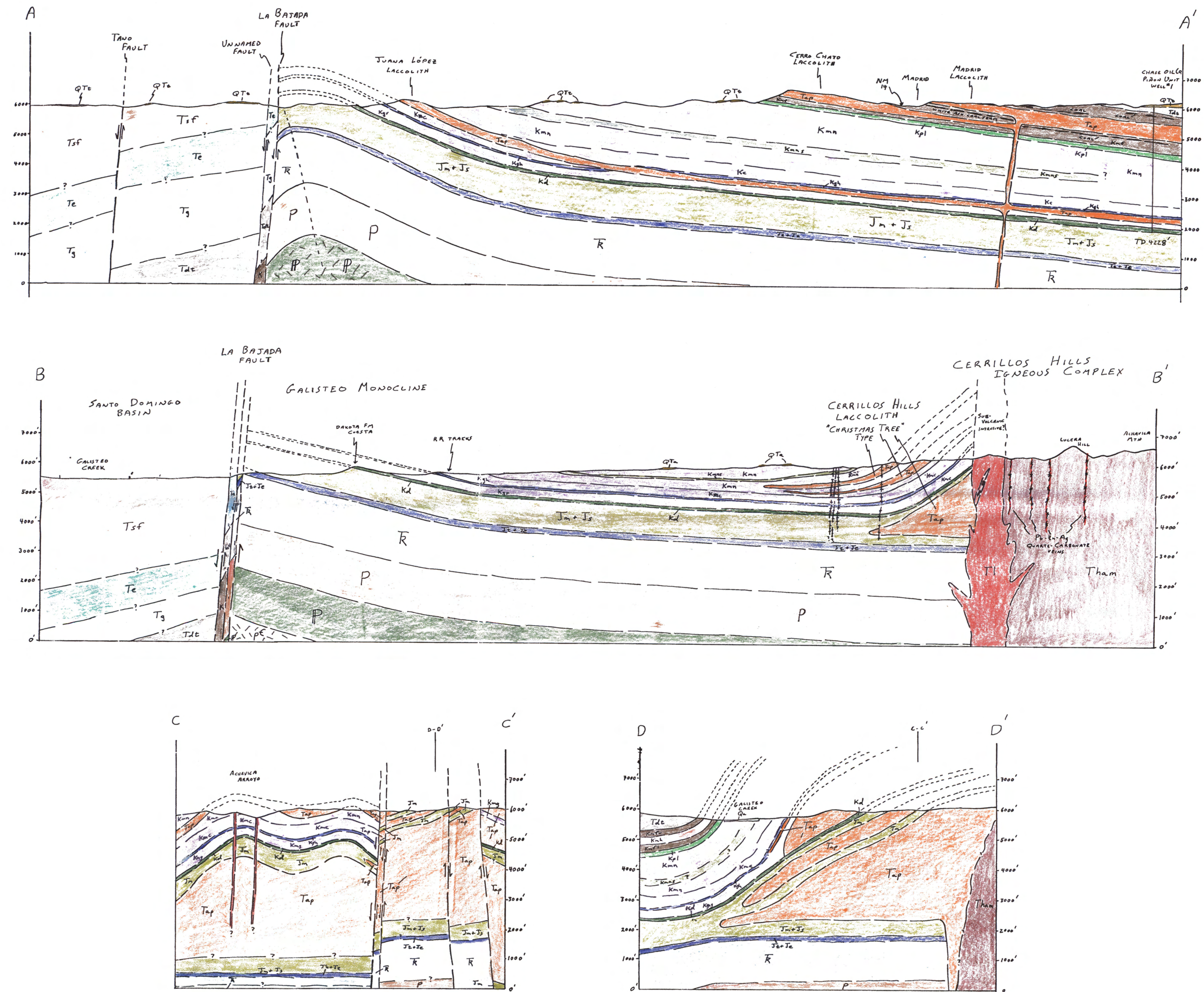
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 NMBGMR Geologic Information Center - (505) 833-5143



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- Geologic Map symbols**
- Fault, dashed where inferred, dotted where concealed. For normal fault, U indicates upthrown side or footwall and D indicates downthrown side or hangingwall. Arrows indicate relative lateral movement for strike-slip fault.
 - Contact, long-dashed where inferred, dotted where concealed.
 - Contacts of unconsolidated deposits (Plio-Pleistocene or younger) with older units or with other unconsolidated deposits (Plio-Pleistocene or younger).
 - Strike and dip of bedding
 - Strike of vertical bedding
 - Strike and dip of jointing
 - Strike and dip of vein or mineralized shear
 - Strike of vertical vein or mineralized shear
 - Trace of axial plane of anticline
 - Mine or prospect shaft
 - Prospect pit
 - Adit
 - Fossil location, US Geological Survey ref. No.
 - Igneous rock sample location
 - Line of measured sections from Lucas and others (1998 and 1999).
 - Limburgite dike
 - Horizontal bedding
 - Strike of vertical jointing
 - Vein
 - Mineralized shear
 - Trace of axial plane of syncline
 - Inclined shaft
 - Mine dump
 - Blocked or caved adit



CORRELATION OF MAP UNITS, MINERALIZATION, AND TECTONIC EVENTS

