

Base from U.S. Geological Survey 1953, from photographs taken 1952 and field checked in 1953.
Map edited in 1977.
1953 North American datum, UTM projection - zone 13.
1000-meter Universal Transverse Mercator grid, zone 13, shown in red.

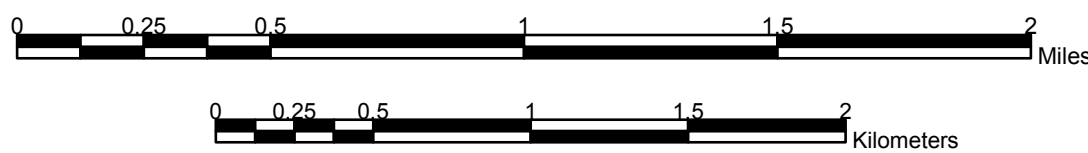
Geologic Map of the Cundiyo 7.5 - minute quadrangle

by
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May 2002

1:24,000

Magnetic Declination
1977
12° East
At Map Center



COMMENTS TO MAP USERS

A geologic map displays information on the distribution, nature, orientation, and age relationships of rock 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map may be based on any of the following: reconnaissance field geologic mapping, compilation of published and unpublished work, and photogeologic interpretation.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 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.

The 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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DRAFT
NMBGMR OF-GM 56

This draft geologic map was produced from scans of hand-drafted originals from the authors. It is being distributed in this form because of the demand for current geologic mapping in this important area. The final release of this map will be made following peer review and redrafting in color using NMBGMR cartographic standards. The final product will be made available on the internet as a PDF file and in a GIS format.

EXPLANATION OF MAP SYMBOLS

- Geologic contact - Solid where exposed; dashed where approximately located; dotted where concealed; queried where uncertain.
- Approximate location of the gradational contact between Lithosome A and B; gradation occurs over a distance of 1-1.5 km northwest of the contact and up to 4 km southeast of the contact.
- Normal fault - Solid where exposed; dashed where approximately located; dotted where concealed; queried where uncertain. Ball and bar are on downthrown block. Number by arrow denotes the location and value of fault dip measurement.
- Anticline - showing trace and plunge of inferred crest line; dashed where approximate.
- Syncline - showing trace of inferred crest line; dashed where approximate.
- Antiform overturned so it is now an approximate recumbent fold; arrows on ends of "horseshoe" denote direction the fold faces.
- Monocline - line is very approximately located in the middle of the steepest dips of the beds; dashed where approximately located; arrows denote dip direction.
- Outcrop of Lithosome B gravel within unit Tan2 located more than 0.3 km south-east of the Lithosome A - Lithosome B gradational contact.
- Strike and dip of bedding.
- Beds that dip less than 2 degrees.
- Paleocurrent direction - Tail of vector is located at measurement location; method of measurement noted: channel trend (ch), basal channel scour grooves and longitudinal furrows (gr), cross-stratification (xs), and clast imbrication (i).
- Uranium exploratory wells used to constrain subsurface stratigraphic relationships; well label also shown.
- Location of Castle and Wigzell #1 Kelly Federal well.
- Cross-section line endpoint

ASHES

- Ash Eta/Zeta
Ash Gamma
White Ash #4
Ash B Complex
Ash F
White Ash #3
White Ash #1
White Ash #2
Nambé White Ash
Middle Ash of Nambé Member
Lower Ash of Nambé Member
Non-correlated gray ashes in the Tesuque Formation
Lower intermediate volcaniclastic portion of unit Tmov

Note: ashes between various exposures may be correlated by dotted lines

FIGURE 3

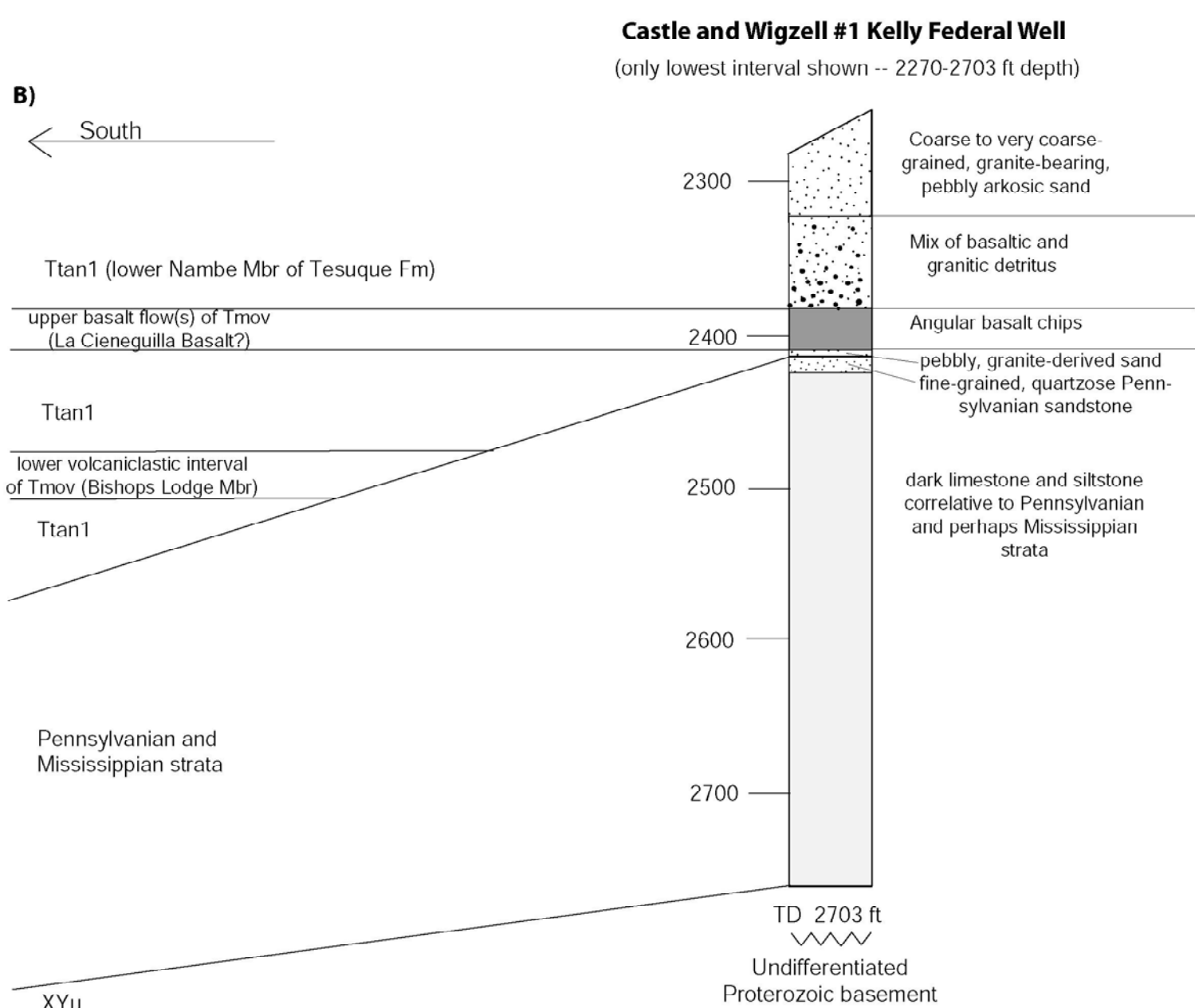
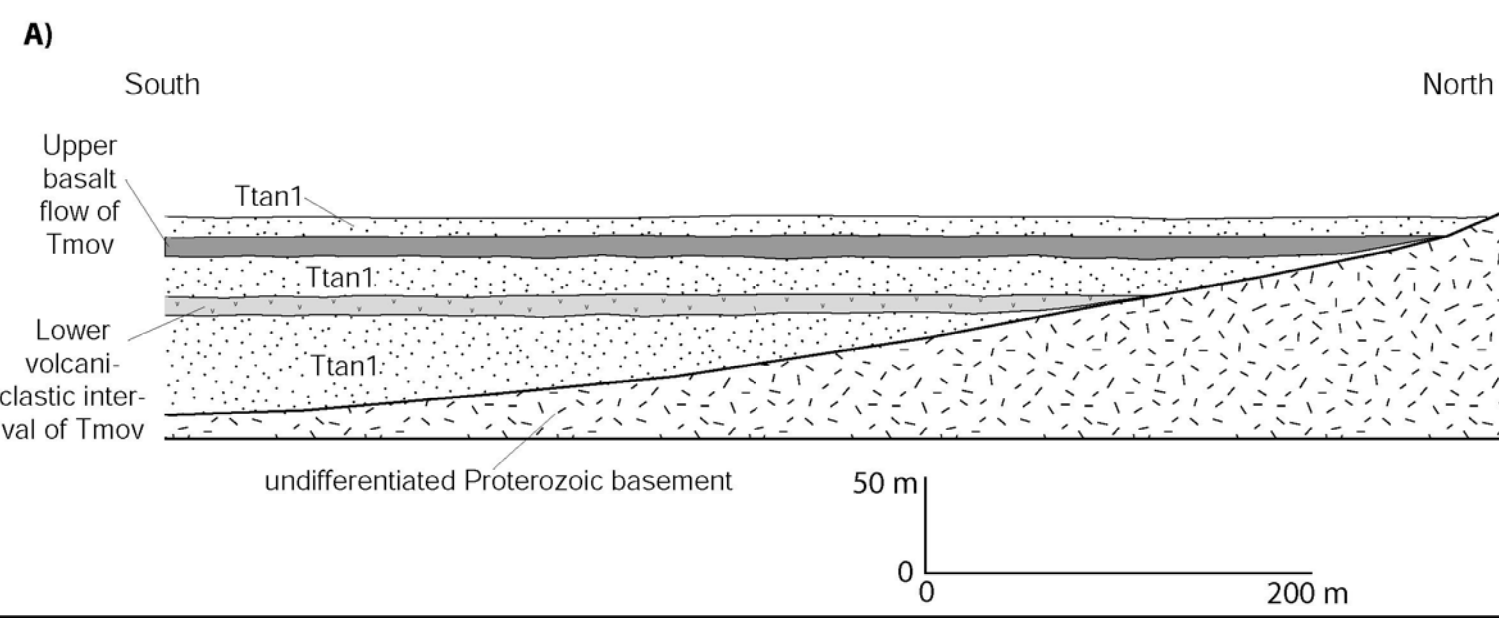


FIGURE 1

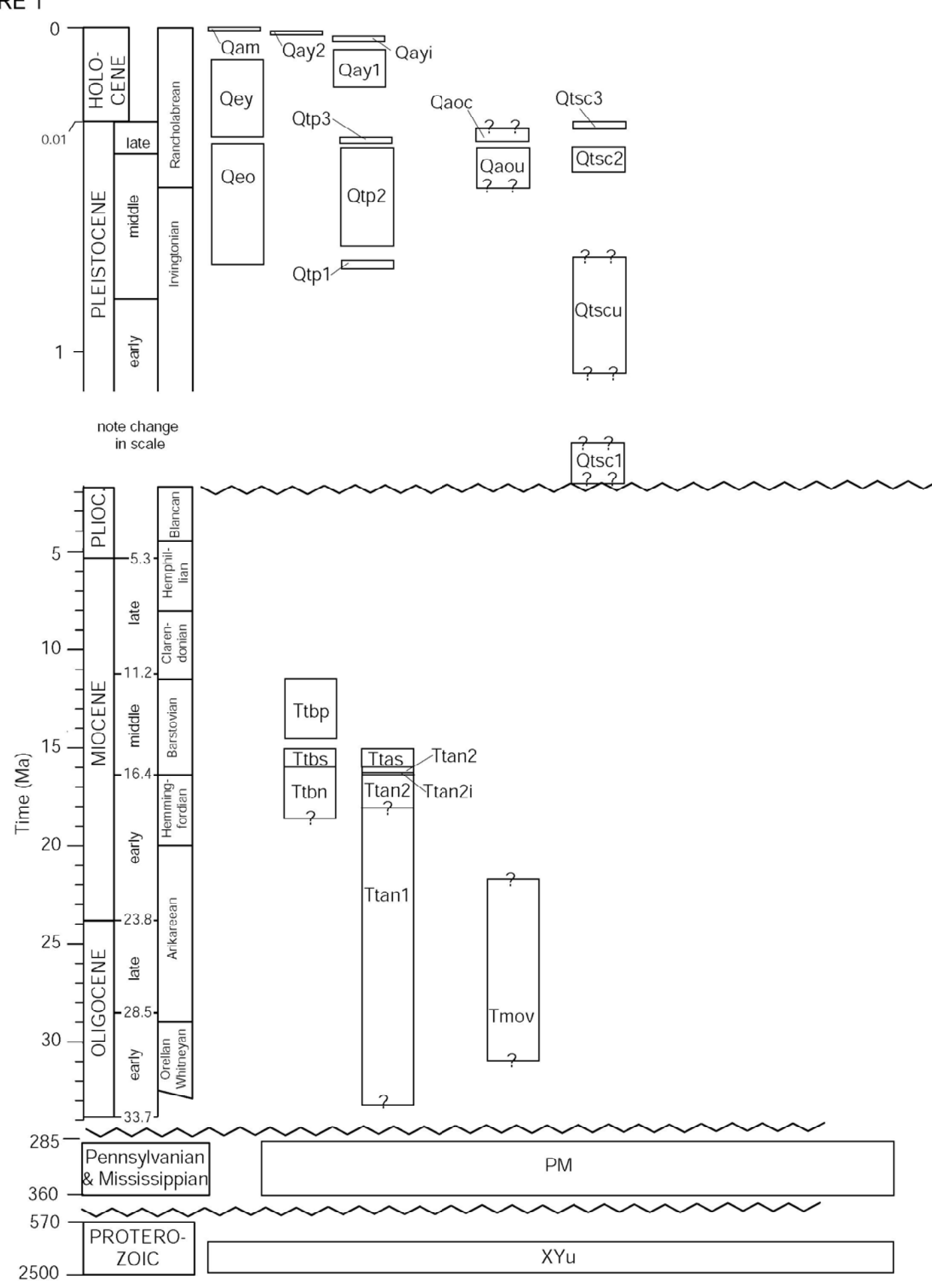


FIGURE 2

