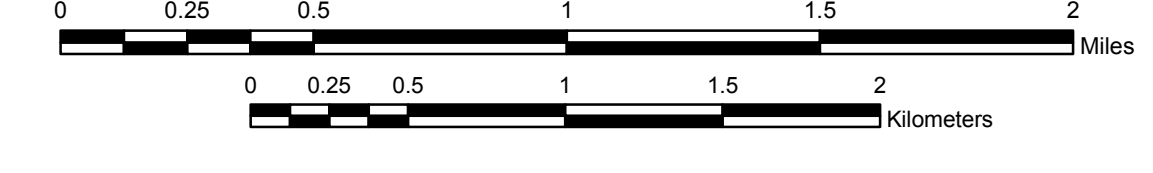


Geologic Map of the Penasco 7.5 - minute Quadrangle

by Paul W. Bauer, Keith I. Nelson, and Scott B. Aty

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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. It is being distributed in this form because of irregular surfaces that form boundaries between different types or ages of units. Data depicted on this geologic map are based on field observations and aerial photography. Reconnaissance field geologic mapping, compilation of published and unpublished work, and photogeologic interpretation.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 positions 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.

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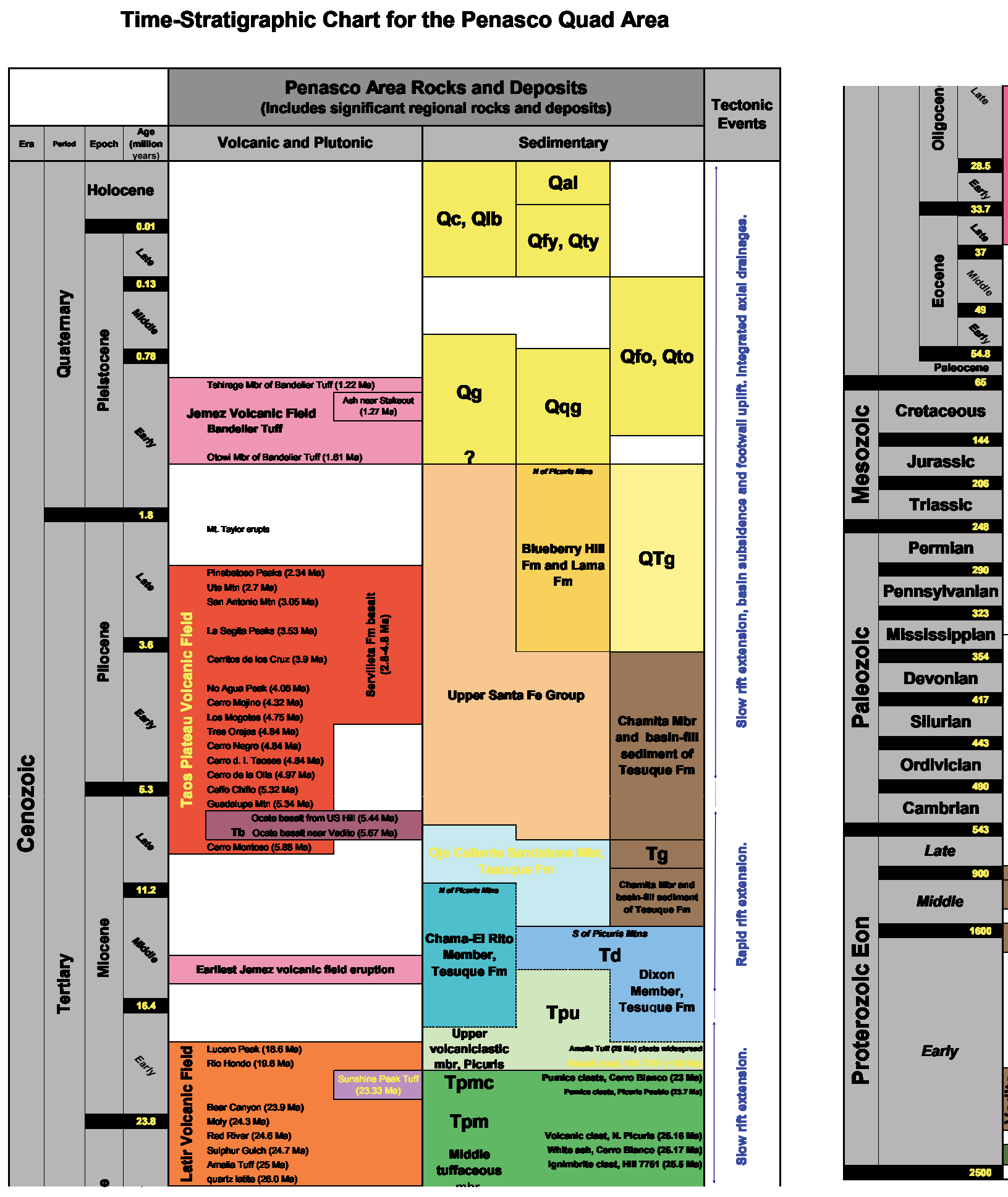
Cross sections are constructed based upon the interpretations of the author made from geologic mapping, and available geophysical and subsurface geologic data. Cross-sections should be used as an aid to understanding the general geologic framework of the map area, and not be the sole source of information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

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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.

This and other maps are available in PDF format from:  
http://geoinfo.nmt.edu/statemap  
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**Geochronology Samples from the Penasco Quadrangle**

Sample ID	Age (Ma)	Age Range (Ma)	Material	Location	Notes
Pen-01	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-02	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-03	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-04	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-05	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-06	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-07	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-08	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-09	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-10	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-11	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-12	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-13	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-14	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-15	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-16	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-17	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-18	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-19	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-20	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-21	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-22	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-23	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-24	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-25	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-26	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-27	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-28	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-29	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-30	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-31	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-32	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-33	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-34	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-35	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-36	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-37	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-38	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-39	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-40	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-41	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-42	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-43	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-44	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-45	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-46	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-47	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-48	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-49	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member
Pen-50	18.8 ± 0.2	18.8 ± 0.2	Zircon	Penasco Fm. (T1)	Lower member

This draft geologic map was produced from scans of hand-drafted geologic maps of the map area. 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 retinting 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.