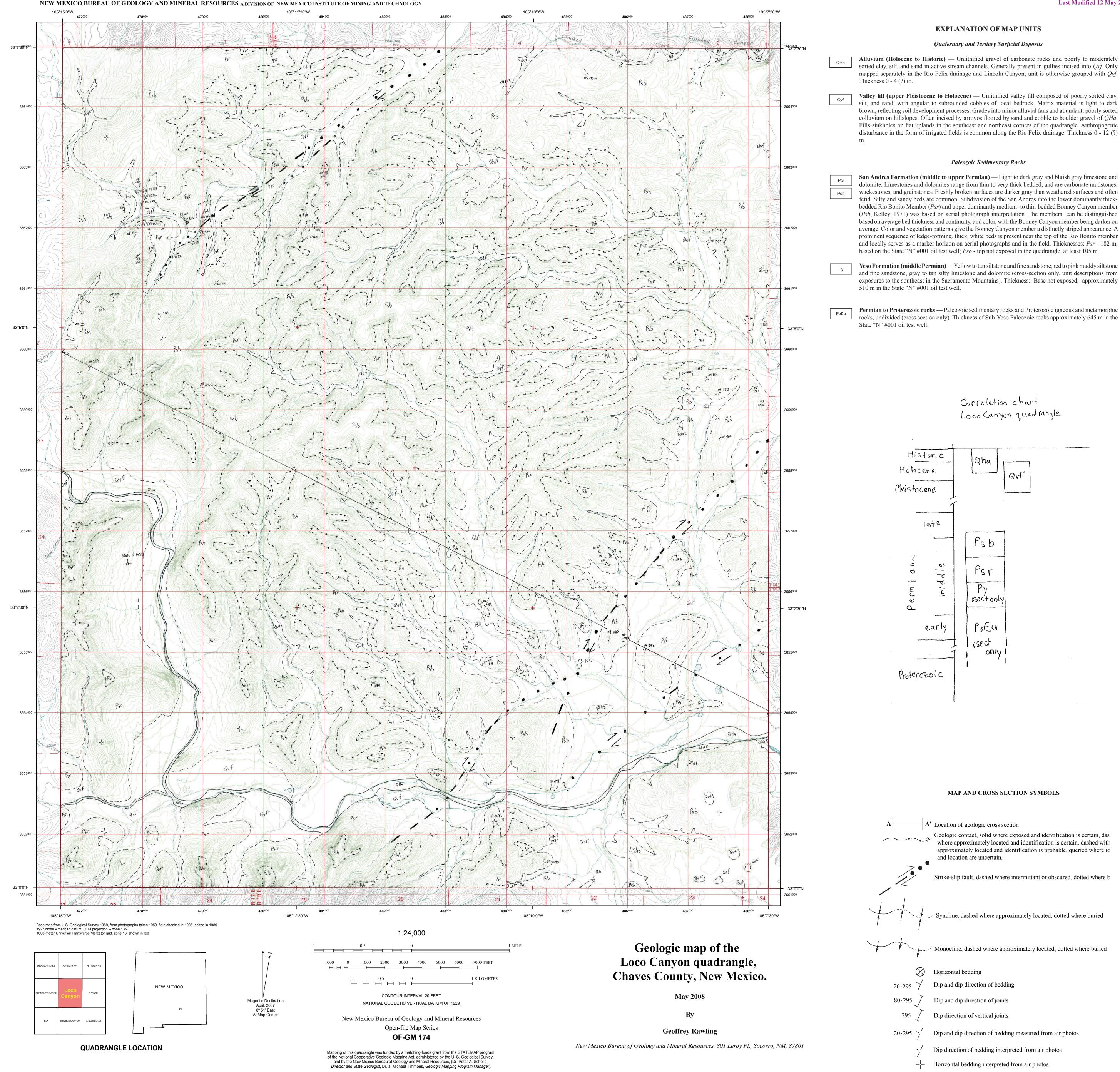
NMBGMR Open-file Geologic Map 174 Last Modified 12 May 2008

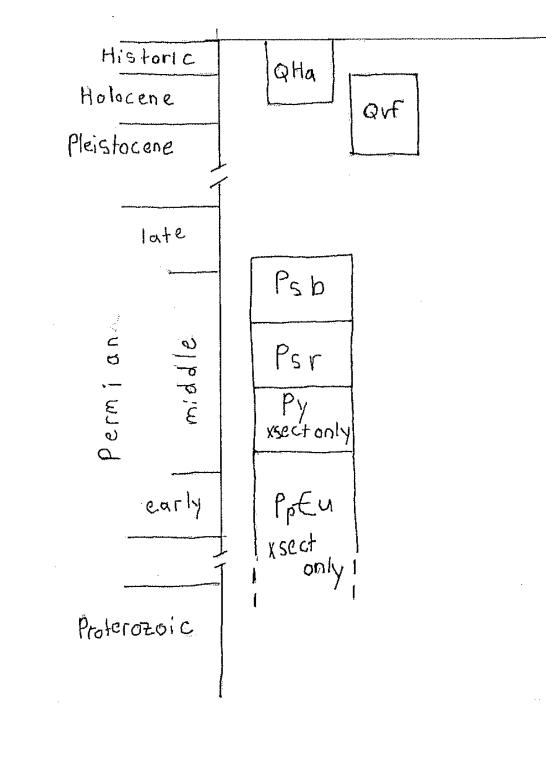


- sorted clay, silt, and sand in active stream channels. Generally present in gullies incised into Qvf. Only mapped separately in the Rio Felix drainage and Lincoln Canyon; unit is otherwise grouped with Qvf.
- silt, and sand, with angular to subrounded cobbles of local bedrock. Matrix material is light to dark brown, reflecting soil development processes. Grades into minor alluvial fans and abundant, poorly sorted colluvium on hillslopes. Often incised by arroyos floored by sand and cobble to boulder gravel of QHa. Fills sinkholes on flat uplands in the southeast and northeast corners of the quadrangle. Anthropogenic disturbance in the form of irrigated fields is common along the Rio Felix drainage. Thickness 0 - 12 (?)

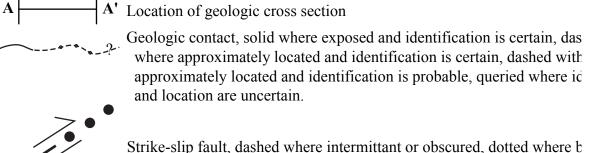
San Andres Formation (middle to upper Permian) — Light to dark gray and bluish gray limestone and dolomite. Limestones and dolomites range from thin to very thick bedded, and are carbonate mudstones, wackestones, and grainstones. Freshly broken surfaces are darker gray than weathered surfaces and often fetid. Silty and sandy beds are common. Subdivision of the San Andres into the lower dominantly thickbedded Rio Bonito Member (Psr) and upper dominantly medium- to thin-bedded Bonney Canyon member (Psb, Kelley, 1971) was based on aerial photograph interpretation. The members can be distinguished based on average bed thickness and continuity, and color, with the Bonney Canyon member being darker on average. Color and vegetation patterns give the Bonney Canyon member a distinctly striped appearance. A prominent sequence of ledge-forming, thick, white beds is present near the top of the Rio Bonito member and locally serves as a marker horizon on aerial photographs and in the field. Thicknesses: Psr - 182 m,

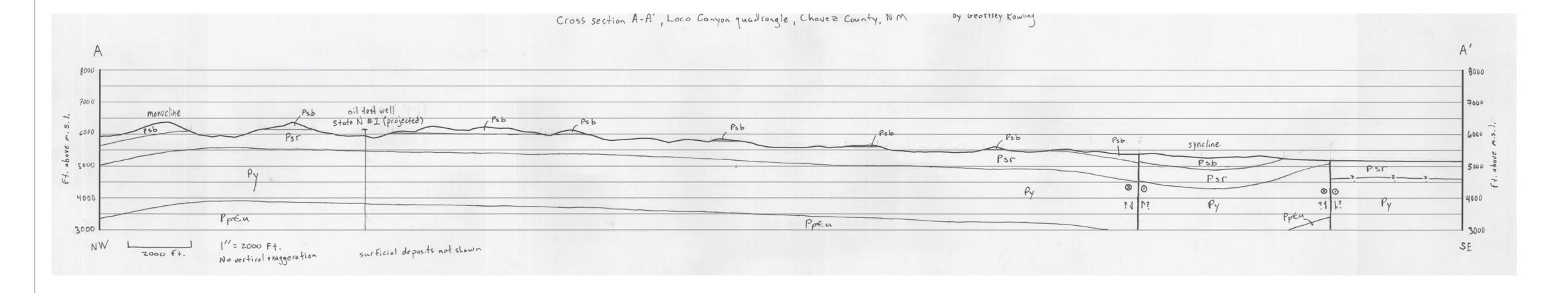
Yeso Formation (middle Permian) — Yellow to tan siltstone and fine sandstone, red to pink muddy siltstone and fine sandstone, gray to tan silty limestone and dolomite (cross-section only, unit descriptions from exposures to the southeast in the Sacramento Mountains). Thickness: Base not exposed; approximately

rocks, undivided (cross section only). Thickness of Sub-Yeso Paleozoic rocks approximately 645 m in the









COMMENTS TO MAP USERS

)- Oil test well used in construction of cross-section

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 associated with recent development may not be shown.

Cross sections are constructed based upon the interpretations of the author made from geologic



This draft geologic map is preliminary and will undergo revision. It was produced from either scans of hand-drafted originals or from digitally drafted original maps It is being distributed in this draft form as part of the bureau's Open-file map series (OFGM), due to high demand for current geologic map data in these areas where STATEMAP quadrangles are located, and it is the bureau's policy to disseminate geologic data to the public as soon as possible.

DRAFT

New Mexico Bureau of Geology and Mineral Resources **New Mexico Tech** 801 Leroy Place Socorro, New Mexico 87801-4796

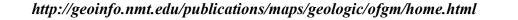




After this map has undergone scientific peer review, editing, and final cartographic production adhering to bureau map standards, it will be released in our Geologic Map (GM) series. This final version will receive a new GM number and will supercede this preliminary open-file geologic map.



This and other STATEMAP quadrangles are (or soon will be) available for free download in both PDF and ArcGIS formats at:



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.