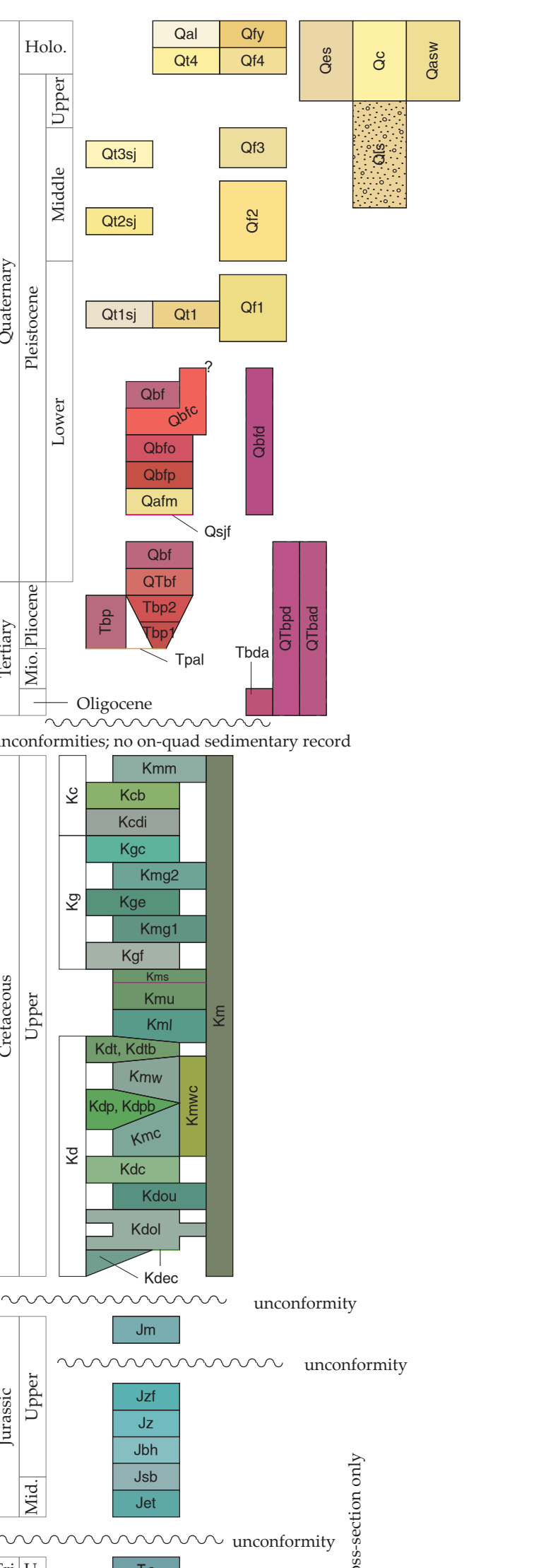
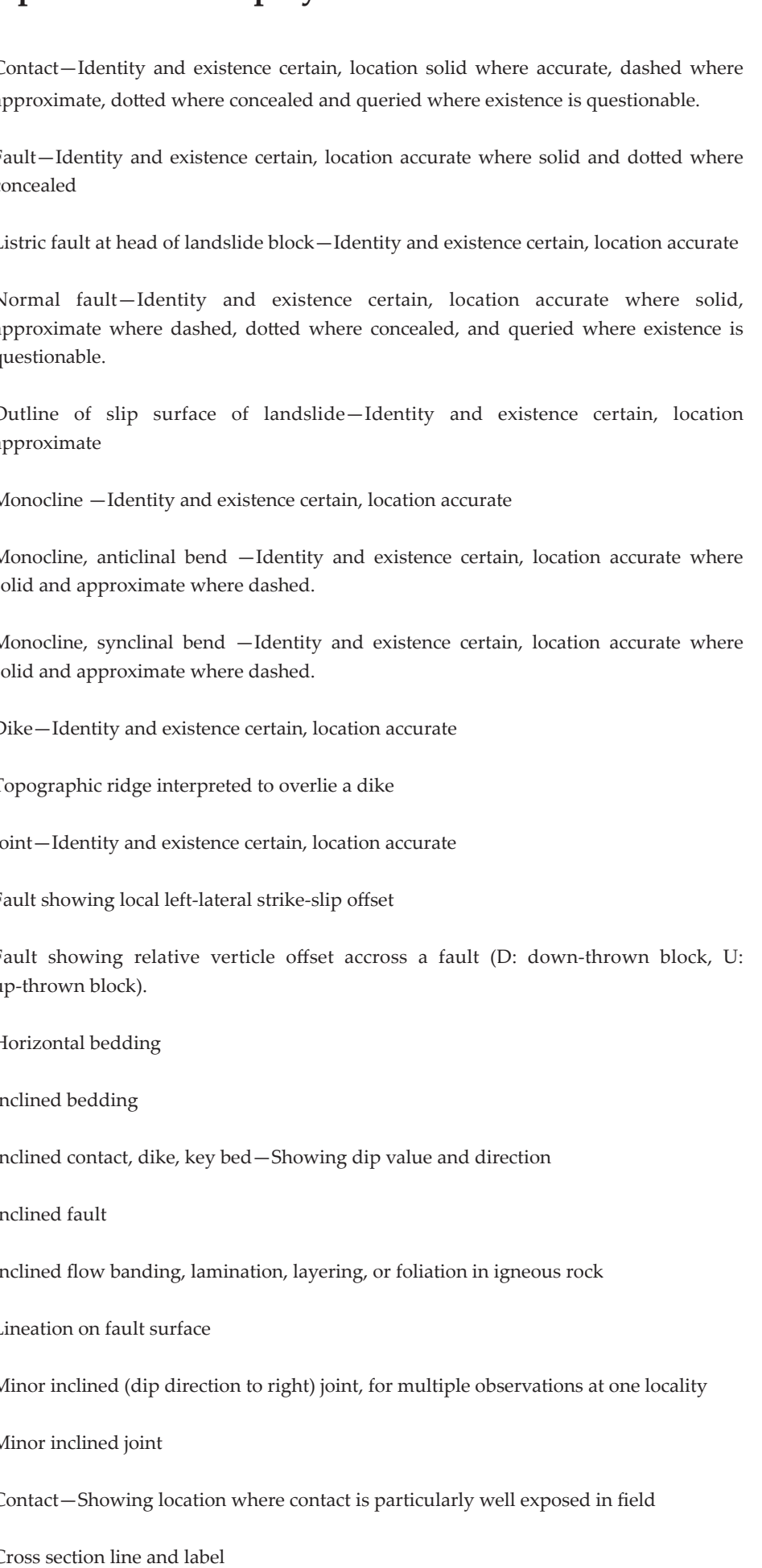


Correlation of Map Units



Explanation of Map Symbols



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map may be based on any of the following: reconnaissance field geologic mapping, compilation of published and unpublished work, and photogeologic interpretation.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. 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 developments.

Cross sections are constructed based upon the interpretations of the author made from geologic mapping, and available geophysical, and subsurface geophysical 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 New Mexico Bureau of Geology and Mineral Resources created the Open-File Geologic Map Series to expedite dissemination of these geologic maps and map data to the public as rapidly as possible while allowing for map revision as geologists continued to work in map areas. Each map sheet carries the original date of publication below the map as well as the latest revision date in the upper right corner. In most cases, the original date of publication coincides with the date of the map product delivered to the National Cooperative Geologic Mapping Program (NCGMP) as part of the STATEMAP agreement. While maps are produced, maintained, and updated in an ArcGIS geodatabase, at the time of the STATEMAP deliverable, each map goes through cartographic production and internal review prior to uploading to the Internet. If additional updates are carried out, the ArcSDE map data files, citations to those maps should reflect this original publication date and the original authors listed. The views and conclusions contained in these map documents 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, the U.S. Government.

Anthropogenic Units

Table listing anthropogenic units: Rw09 (Water of Acoma Lake), af (Artificial fill), Q1s (Landslide terrain), Qe8 (Eolian material), Qc (Talus and colluvium).

Description of Map Units

Alluvial deposits

Table listing alluvial deposits: Qal (Alluvium), Qasw (Shallow alluvium), Q4 (Terrace deposits), Q13s (Alluvium), Q2s (Alluvium), Q11 (Alluvium), Q11a (Alluvium), Qf4 (Fan alluvium), Qf3 (Deposits), Qf2 (Deposits), Qf1 (Deposits), Qly (Young alluvium).

Flower Mountain Volcano

Table listing volcanic units: Qbf (Basalt of Flower Mountain), Qbfc (Cinder of Flower Mountain), Qbfo (Older basalt of Flower Mountain), Qbfd (Feeder dikes of Flower Mountain), Qbfp (Pyroclastics of Flower Mountain).

Alluvium underlying Flower Mountain

Table listing alluvium units: Qafm (Tributary alluvium), Qajf (Ancestral Rio San Jose alluvium).

Mount Taylor volcanic field

Table listing volcanic field units: Qbp (Plagioclase porphyry basalt), QTf (Fine-grained basalt), Tbp (Porphyritic basalts), Tbp2 (Pyrone is andeshtal), Tbp1 (Lower porphyritic basalt), Tpa (Alluvium underlying high-level mesa).

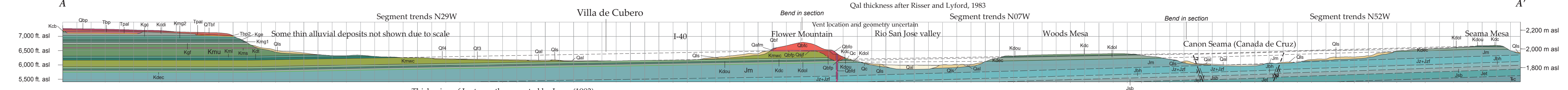
Intusive igneous dikes

Table listing intrusive units: QTbd (Aphanitic dikes), QTbdp (Porphyritic dikes), Tbd (Acoma dike).

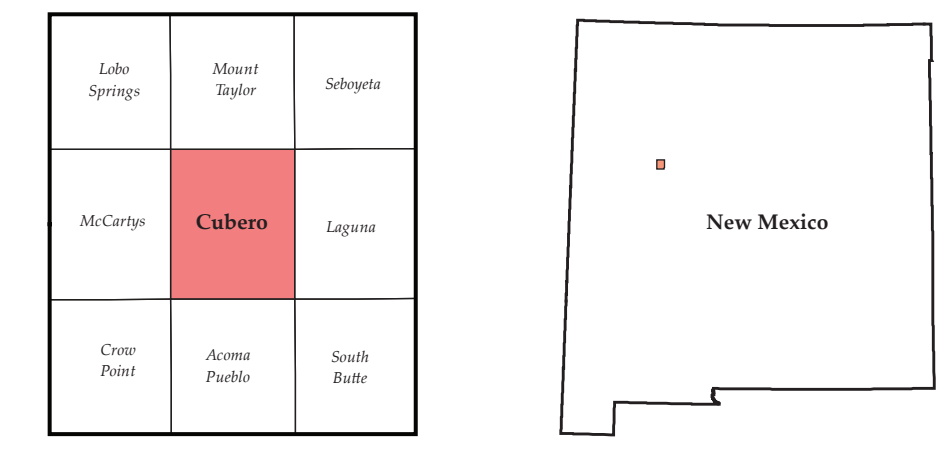


FIGURE 1—Flower Mountain (mounded hill at right) and the Rio San Jose (in valley at center) with Mount Taylor (skitline at left) in the background. Flower Mountain is the eroded remains of a Lower Pleistocene basaltic volcano; gray sediments below the volcanic rocks directly beneath the peak in this photo are Mancos shale overlain by ancestral Rio San Jose gravels. Centinosa pale yellowish brown sandstone ledge in foreground and beneath Flower Mountain is the Cubero Sandstone Tongue of the Dakota Sandstone; locally exposed sandstones beneath the Cubero ledge to the Oak Canyon Member. Pale yellowish brown sandstones in the distance beneath Mount Taylor are tongues of the Gallup Sandstone. Both intervals are poorly exposed tongues of the Mancos Shale. Mount Taylor is an eroded Plio-Pleistocene stratovolcano to the north of the study area.

Geologic Cross Section A-A'



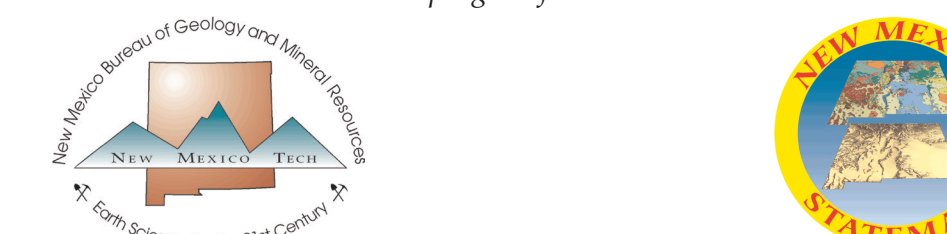
Base map from U.S. Geological Survey 2010 North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84) Projection and 100-meter grid. Universal Transverse Mercator. Zone 13S UTM in WGS84. UTM in WGS84. UTM in WGS84.



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Geologic Map of the Cubero 7.5-Minute Quadrangle, Cibola County, New Mexico

This and other STATEMAP quadrangles are available for free download in both PDF and ArcGIS formats at: http://geoinfo.nmt.edu



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