

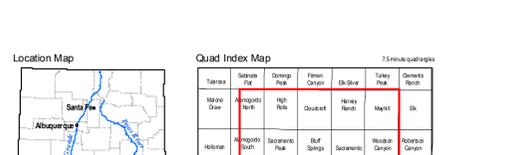
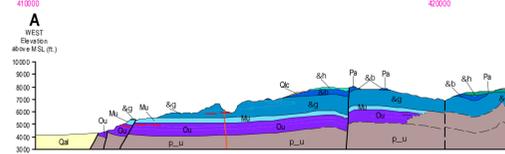
- Explanation of Map Symbols**
- Structural contour of the top of the Yesso Formation, dashed where approximately located (R as)
 - Contour interval 200 ft
 - Stream
 - 7.5 min. Quadrangle boundary
 - County boundary
 - Tribal lands boundary
 - B-B' Cross section
- Point Data**
- Horizontal bedding
 - Inclined bedding showing dip of beds
 - Overtured bedding showing dip of bed
 - Inclined joint
 - Minor fault
 - Horizontal bedding determined by airphotos
 - Inclined bedding determined by airphotos
- Contacts**
- Certain contact, exposed
 - Certain contact, intermittent-obscured
 - Probable contact, intermittent-obscured
 - Uncertain contact, intermittent-obscured
- Faults**
- Fault, certain, exposed
 - Fault, certain, intermittent-obscured
 - Fault, certain, concealed
 - Fault, probable, intermittent-obscured
 - Fault, probable, concealed
 - Interruption
- Folds**
- Anticline, certain, exposed
 - Anticline, certain, intermittent-obscured
 - Anticline, certain, concealed
 - Anticline, probable, intermittent-obscured
 - Anticline, probable, concealed
 - Syncline, certain, exposed
 - Syncline, certain, intermittent-obscured
 - Syncline, certain, concealed
 - Syncline, probable, intermittent-obscured
 - Syncline, probable, concealed
 - Monocline, certain, intermittent-obscured
 - Monocline, probable, intermittent-obscured
 - Monocline, probable, concealed

- Geologic Units**
- Qal Quaternary alluvium in channels and at valley bottoms, alluvial fan deposits, and some gravels, sandstone, siltstone, and clay
 - Qc Quaternary and tertiary terrace gravels
 - QTg Quaternary and tertiary terrace gravels
 - Ti Tertiary intrusive igneous rocks, undivided
 - Pib Sixteen Springs Canyon Member of the San Andres
 - Pr Permian and lower part of the San Andres Formation
 - Py Yesso Formation
 - Pa Paleozoic, undivided
 - PD Devonian Formation
 - SH Silurian Formation
 - SG Silurian Formation
 - SG Silurian Formation
 - MU Mississippian, undivided
 - S Silurian, undivided
 - OU Ordovician, undivided
 - P,U Precambrian, undivided
 - gal Gabbro and basaltic dike

Some of the detailed geologic mapping work this compilation is based on was performed under the STATEMAP component of the USGS National Cooperative Geologic Mapping Program. The U.S. Geological Survey and the New Mexico Bureau of Geology and Mineral Resources (a division of New Mexico Tech) provided funding for geological mapping. The Otero Soil & Water Conservation District and the New Mexico Department of Agriculture provided funding for the compilation effort as well as the ongoing hydrogeologic investigation. This project would not be possible without the kind cooperation of the many residents of the Sacramento Mountains who have granted access to their property and wells.

Geologic Mapping Credits

Pray 1961	Hallett 2006	Hallett 2007	Hallett 2007
	Hallett 2006	Rawling 2007	Rawling 2007
	Hallett 2006	Rawling and Lullier 2008	Rawling and Lullier 2008



Location Map

Quad Index Map

Tanner	Saban	Dodge	Finn	Tate	Conner
Wade	North	High	Cloud	Wend	Mayh
Holmes	Alamo	Sacram	Blf	Sacram	Wood
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes	Yes

DRAFT
 This map is a work in progress and is subject to revisions as data and interpretation evolve.

Plate 1: Preliminary Geologic Map of the Sacramento Mountains Hydrogeology Study, New Mexico
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