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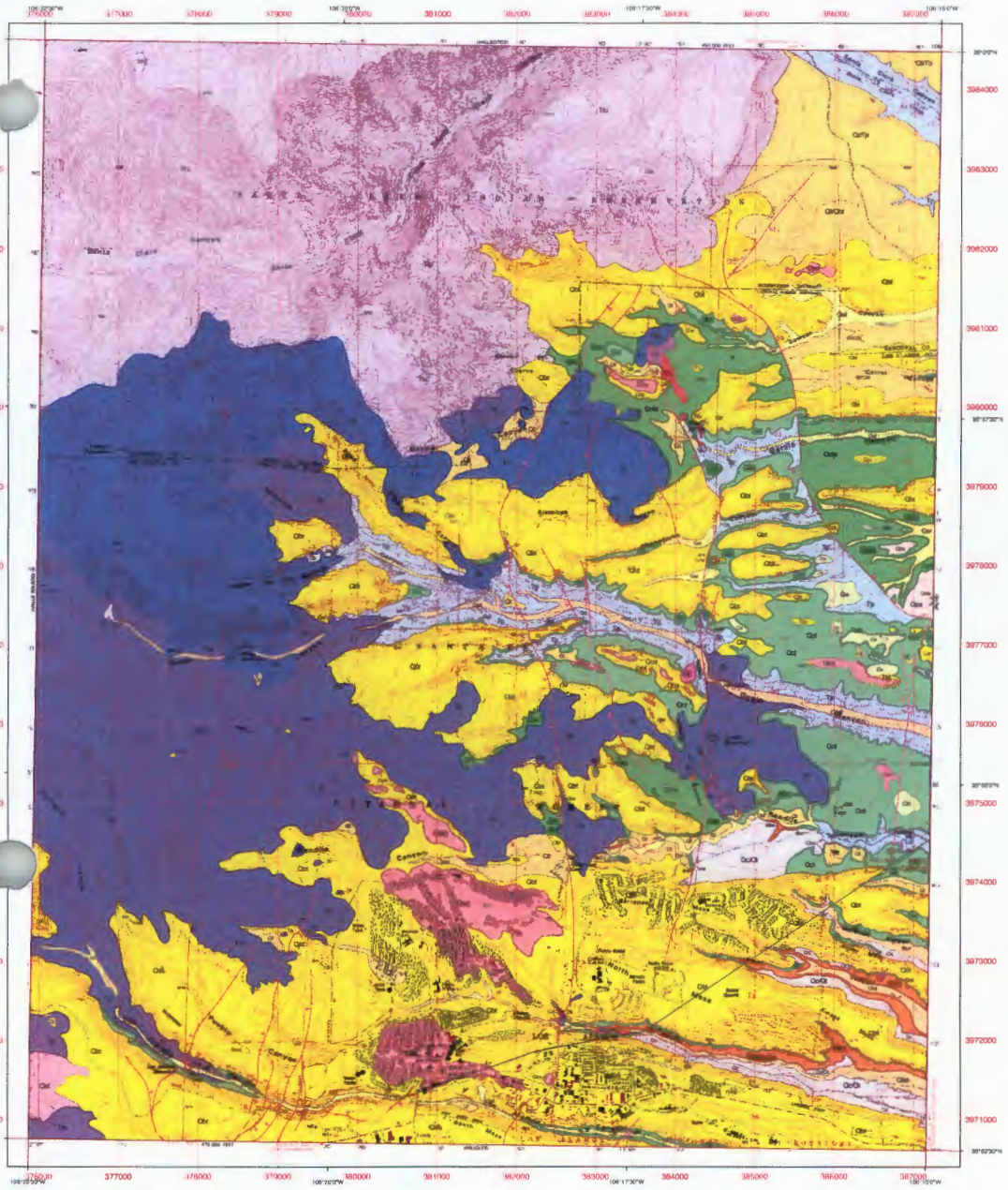

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Map Unit Descriptions

Qal – Alluvium. Gravel, sand and silt deposited in modern drainages

Qc – Colluvium. Talus debris along cliffs, mapped only in areas with extensive deposits, obscuring bedrock relationships.

Qt – Terrace Deposits. Older alluvial deposits near the margins of modern streams or older perched floodplain deposits

Qtal Undifferentiated terrace and alluvial deposits along modern streams.

Qe – Eolian Deposits. Typically less than a meter thick, fine grained sand that cap terraces along the eastern edge of the field area.

Ql – Landslide Deposits.–Chaotic debris or slump from cliff outcrops.

Qrm – Older Alluvium. Alluvial deposits that rest upon the Bandelier Tuff which largely predate incision of the modern canyons. In the town of Los Alamos these deposits include tephra erupted from Cerro del Medio at approximately 1.1 Ma.

Qbt – Upper Bandelier Tuff, Tshirege Member.

Qrl – Older landslide deposit. Occurs on the eastern flank of Pajarito Mountain, predating the eruption of the Tshirege Member of the Bandelier Tuff.

Qctu – Cerro Toledo interval (non basin) with younger alluvium and/or colluvium. Can also include reworked Cerro Toledo material.

Qct – Cerro Toledo Interval. Tephras and alluvial deposits emplaced between the Tshirege and Otowi members of the Bandelier Tuff.

Qbo – Lower Bandelier Tuff, Otowi Member.

Tp – Puye Formation.

Tbs – Colluvium and small volume tephras, ignimbrites and block and ash flows. Glassy lava fragments in the block and ash flows appear dacitic, with phenocrysts of plagioclase, pyroxene, amphibole and biotite.

Tc – Caballo Lavas, Tshicoma Formation. Lavas and associated block and ash flows erupted from the vicinity of Caballo Mountain. Phenocrysts of plagioclase, pyroxene and sparse biotite and hornblende.

Tcp – Pajarito Lavas, Tshicoma Formation. Lavas and associated block and ash flows erupted from Pajarito Mountain.

Tas – Ignimbrite related to the Rendija lavas, exposed in western Guaje Canyon.

Tr – Rendija Lavas, Volcanoclastic rhyodacitic lavas that form south of the Sierra de Los Valles. Phenocrysts of plagioclase (megacrysts), quartz, sanidine, and trace amounts of biotite and hornblende. Rendija lavas in the northern portion of the study area contain moderate amounts of biotite

Tbs – Tshicoma Formation Lavas, Undifferentiated.

Ts – Small volume ignimbrite in Guaje Canyon.

Tks – Miocene Keres Volcanic Rocks. Intermediate composition lavas exposed in Los Alamos Canyon and the Pine Springs area.

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NEW MEXICO

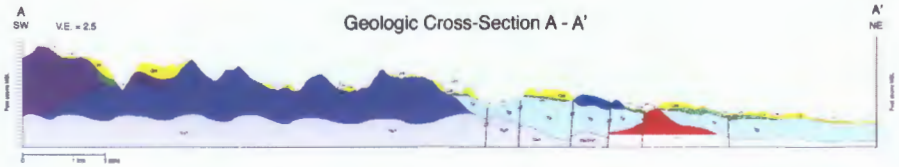
Magnetic Declination
February, 2003
10° 10' East
At Map Center

Preliminary Geologic Map of the Guaje Mountain 7.5 - minute quadrangle, Los Alamos and Sandoval Counties, New Mexico

by
Kirt A. Kempter and Shari Kelley

June 2002

Geologic Cross-Section A - A'



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