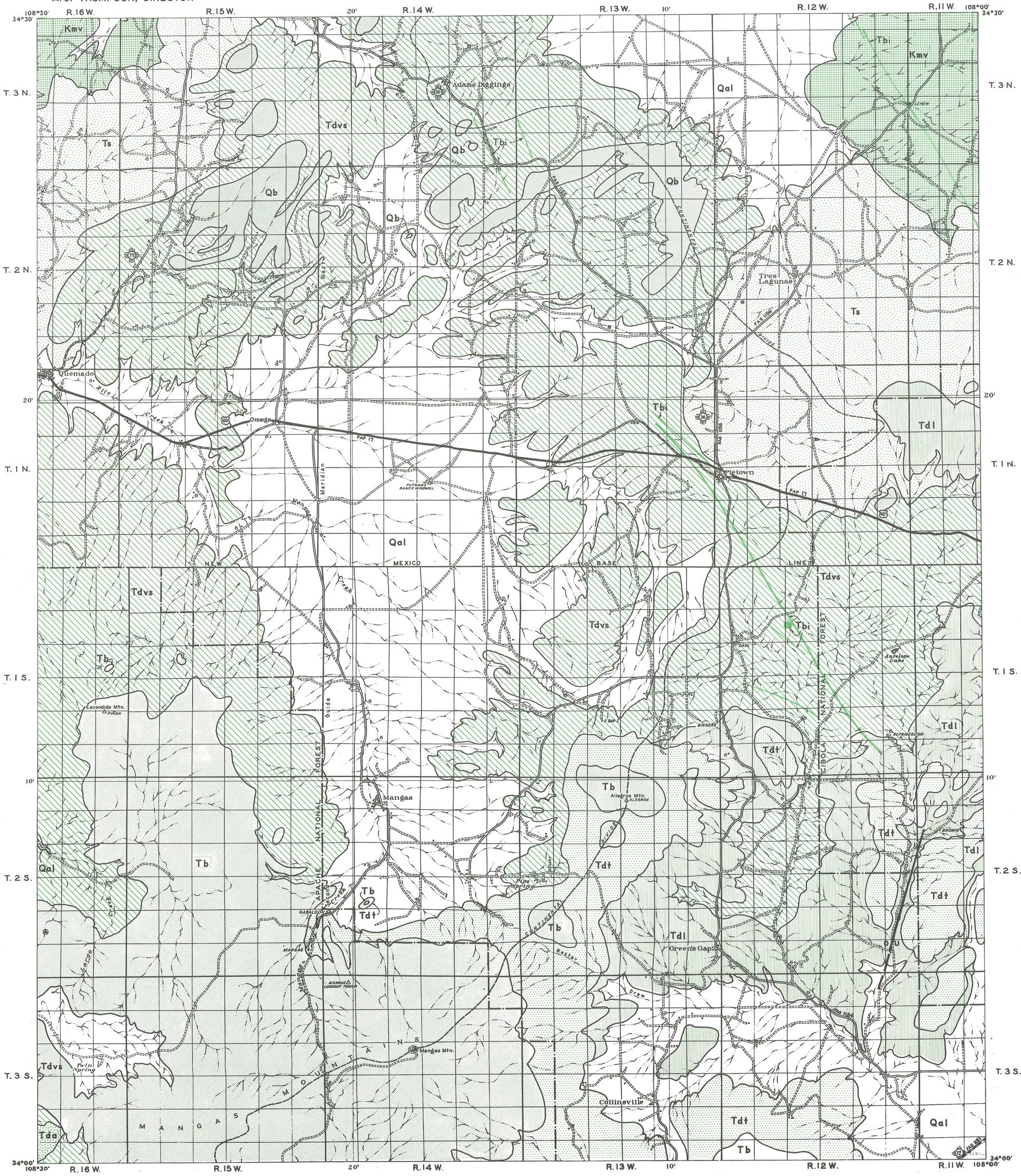
STATE BUREAU OF MINES
AND MINERAL RESOURCES
A. J. THOMPSON, DIRECTOR

NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY
E. J. WORKMAN, PRESIDENT

GEOLOGY
PIÑONVILLE QUADRANGLE
NEW MEXICO

GEOLOGIC MAP 3



EXPLANATION

QUATERNARY

Qal

Alluvium
Includes pediment gravels in Omega area.

Qb

Basalt flows
Typically black, brecciated, and scoriaceous. Commonly contain small olivine phenocrysts.

UNCONFORMITY

TERTIARY

Tb

Basalt and basaltic andesite flows
Black to medium-gray; typically aphanitic; commonly scoriaceous and brecciated in upper parts; characteristically contain scattered reddish-brown grains of iddingsite. In Mangas Mountains include thin interlayed beds of rhyolite tuff and tuff breccia.

Tbi

Basalt intrusions
Principally black to dark-gray aphanitic dikes. May be genetically related to basalt and basaltic andesite flows (Tb).

UNCONFORMITY (?)

Datil formation

Tdt

Rhyolite tuff facies
Light-colored massive pumiceous and crystal tuffs. Commonly rhyolite tuff beds are interlayed with other facies of the Datil formation. East and north of Mangas Mountains includes beds of sandstone and conglomerate made of volcanic and nonvolcanic detrital material.

Tda

Andesite-basaltic andesite facies
Gray to black coarsely porphyritic flows, sills, and dikes; contains lathlike feldspar phenocrysts as much as half an inch long; at places vesicular and brecciated. In part interlayed with rhyolite tuff (Tdt).

Tdl

Latite facies
Light-gray latite and coarse latitic pyroclastics, in part equivalent to the Spears Ranch member of Puertecito quadrangle. Includes beds of sandstone and conglomerate, largely of latite and green to purple altered andesite and smaller amounts of nonvolcanic detrital material. East of Green's Gap contains, in its lower part, an iron-stained breccia.

Tdvs

Volcanic sedimentary facies
Gray to light-gray conglomerate, sandstone, siltstone, and mudstone; largely of volcanic fragments. At places contains thin rhyolite tuff beds.

Ts

Nonvolcanic sedimentary rocks
Quartzite-jasper-quartz-granite-limestone conglomerate, sandstone, graywacke, and siltstone. Largely friable reddish sandstone in Tres Lagunas area. In part equivalent to sediments that elsewhere have been designated as the Baca formation.

CRETACEOUS

Kmv

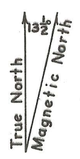
Mesaverde group
Yellow and reddish-brown sandstone and conglomerate and gray shale. Assigned to Crevasse Canyon formation on some maps. Upper beds may be in part equivalent to basal beds of the Baca formation.

Contact
Approximately located.

Fault
Dashed where approximately located
D, downthrown side; U, upthrown side.

Base from Quemado quadrangle of New Mexico State Highway Department.

Geology mapped in 1956.
Geologic cartography by
E. S. Holman.



Approximate mean declination, 1952

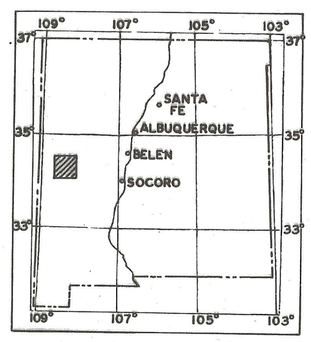
RECONNAISSANCE GEOLOGIC MAP OF PIÑONVILLE THIRTY-MINUTE QUADRANGLE

By Max E. Willard

Scale: 1:126,720

1 0 1 2 3 4 5 6 7 8
Statute Miles

1957



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OF
NEW MEXICO