

EXPLANATION

Qal

Alluvium

Includes some lake sediments in the San Augustin Plains area.

TQg

Gila conglomerate- Santa Fe group

Made up largely of locally derived conglomerates and sandstones. Equivalent, in part, to "Winston beds" in the adjacent quadrangle to the south.

UNCONFORMITY

Tb

Basalt and basaltic andesite flows

Black to medium-gray, aphanitic, commonly vesicular; locally a flow breccia; characteristically contains scattered reddish-brown crystals of iddingsite.

UNCONFORMITY (?)

Tdr

Porphyritic rhyolite flow facies

White to light-gray, well-developed phenocrysts of sanidine and smoky quartz; locally tin-bearing.

Tdt

Tdw

Rhyolite tuff facies

Light-colored bedded pumiceous and crystal tuff and tuff breccia. Characteristically massive; locally has developed columnar jointing (Tdt). Welded rhyolite tuffs and crystal tuffs (Tdw) in San Mateo Mountains. Banded reddish-brown and brown; abundant "phenoclasts" of quartz and sanidine, in part equivalent to Hells Mesa member of Puertecito area.

Tdlr

Latite-rhyolite facies

Interlayered porphyritic flow-banded rhyolite and dark-to light-gray flow-banded latite porphyry. Includes thin rhyolite tuff and welded tuff beds; east of Indian Spring many small greenish-gray vitrophyric intrusions.

Tda

Andesite-basaltic andesite facies

Gray to black, vesicular, coarsely porphyritic; contains lathlike feldspar phenocrysts as much as half an inch long.

Tdb

Rhyolite tuff breccia facies

Massive light-colored pumiceous tuff and interlayered tuff breccia that includes angular fragments of reddish-brown and gray latite; locally welded.

UNCONFORMITY (?)

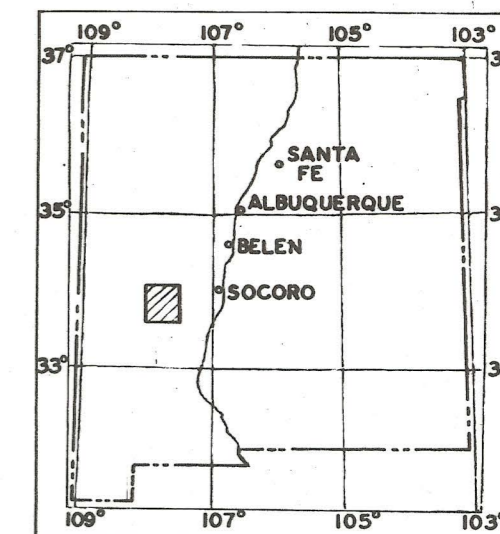
TI

Lower volcanic group

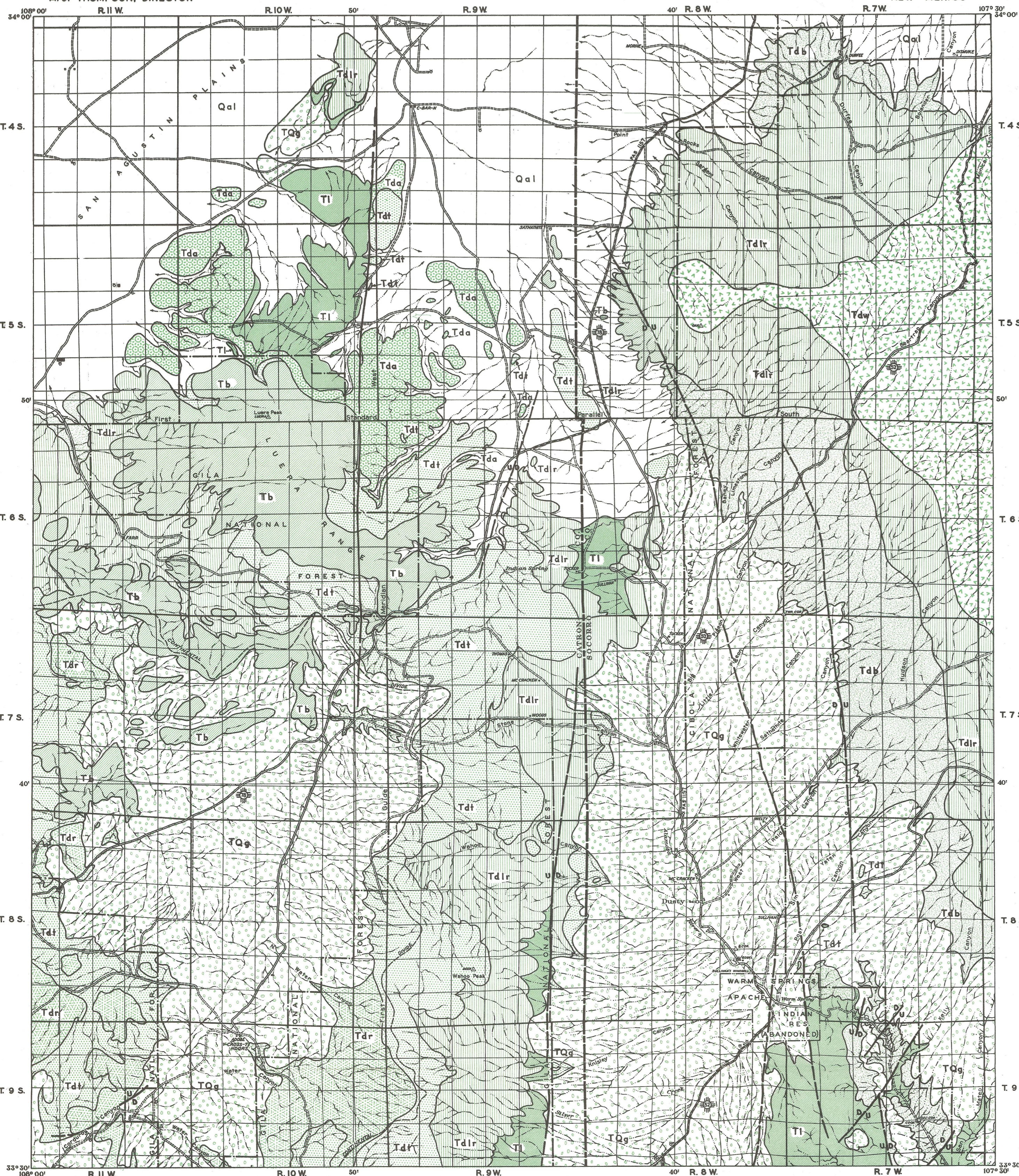
Black to greenish-black to purple basaltic andesite and andesite; locally includes porphyritic reddish-brown banded latite. Characteristically the group is highly altered.

Contact  
Approximately located

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



INDEX MAP  
OF  
NEW MEXICO



Base from Luera Mountains  
quadrangle of New Mexico  
State Highway Department.

True North  
Magnetic North

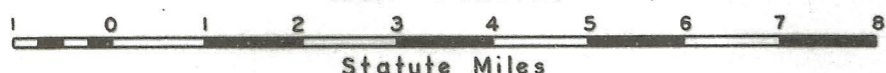
Approximate mean  
declination, 1952

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

RECONNAISSANCE GEOLOGIC MAP  
OF  
LUERA SPRING THIRTY-MINUTE QUADRANGLE

By Max E. Willard

Scale: 1:126720



Statute Miles

1957