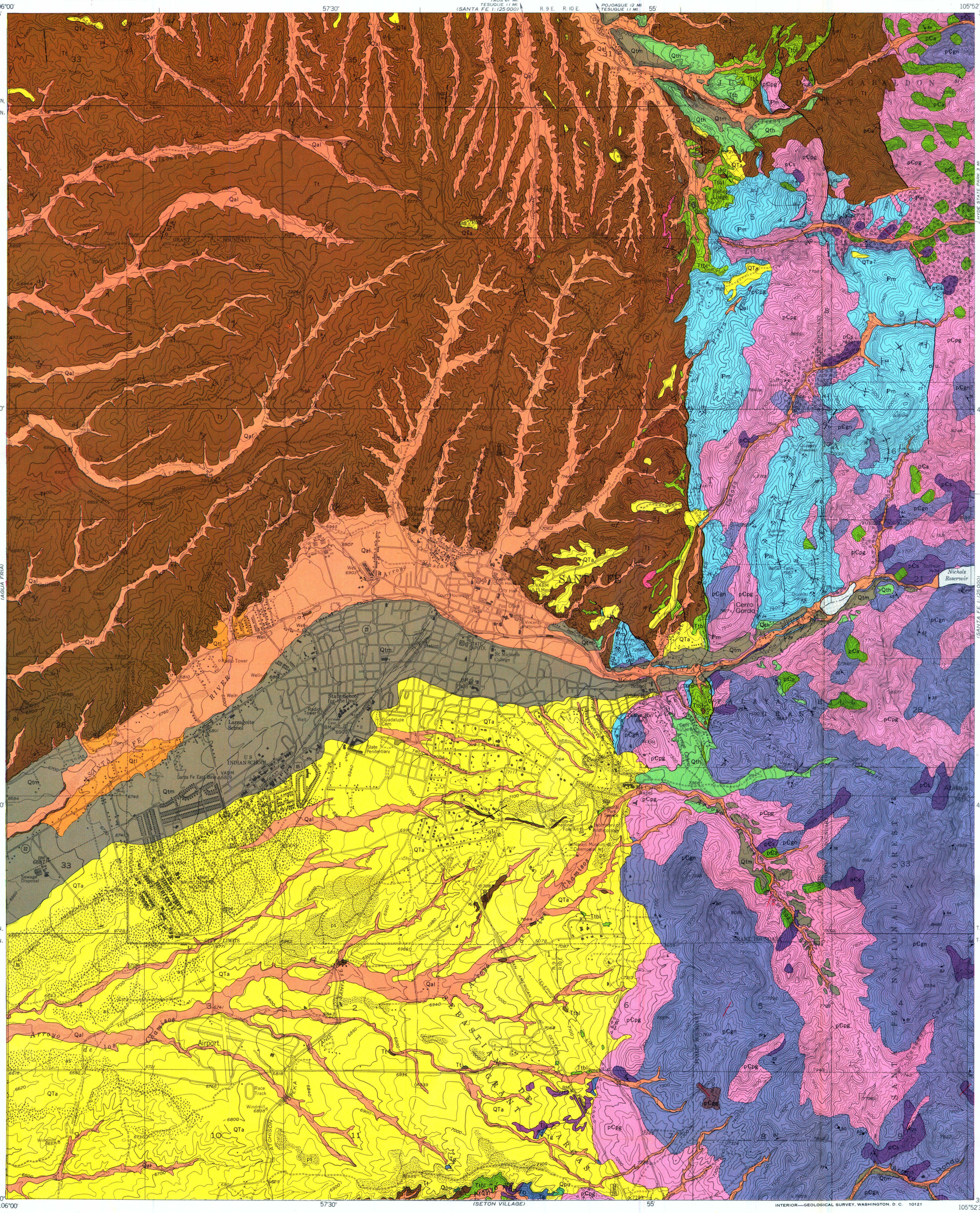

EXPLANATION

Cover is not mapped in this quadrangle

QUATERNARY — *Pleistocene to Recent*

Qal — Alluvium
Sand and gravel along arroyos; locally includes slope wash

Qth, Qtm, Qtl — Terrace deposits
Sand and gravel. Low terrace, Qtl; *middle terrace,* Qtm; *high terrace,* Qth. *Shown along Santa Fe River, Rio Tesuque, Tesuque Creek, Arroyo Mora, Arroyo de los Chamisos, and Arroyo Hondo*

Qpu — Pumice

TERTIARY OR QUATERNARY — *Pliocene or Pleistocene*

QTa — Ancha formation
Silt, sand, and gravel, 0–100 ft in thickness

UNCONFORMITY

TERTIARY — Santa Fe group, *Middle(?) Miocene to lower Pliocene*

Tt, Ttb, Ttbl — Tesuque formation
Pinkish-tan silty to conglomeratic sand and sandstone; olivine basalt flows, Ttb, *near base; Bishops Lodge member,* Ttbl, *volcanic and tuffaceous sediments near base*

UNCONFORMITY

TERTIARY — *Oligocene and Miocene(?)*

Tla — Latitic to andesitic flows and breccia; flows of augite andesite

Tg — Galisteo(?) formation
Reddish siltstone, sandstone, and conglomerate, andesitic tuff, and volcanic conglomerate

UNCONFORMITY

PENNSYLVANIAN, CARBONIFEROUS

IPm — Magdalena group
Arkosic sandstone, cherty limestone, sandstone, shale, and coal. Rocks at base may be of Mississippian age

UNCONFORMITY

PRECAMBRIAN

pCpg — Pink granite
Gneissoid in part

pCa — Amphibolite

pCgg — Gray granite

pCs — Schist

pCgn — Gneiss

Thick pegmatite or aplite dike showing dip

PHYSIOGRAPHIC SURFACE

as — Airport surface

ds — Divide surface

ps — Plains surface

Contact
Dashed where approximately located or concealed by reworked material

Generalized contact
Separates areas where different types of Precambrian rocks predominate

Fault, showing dip
Dashed where approximately located, dotted where concealed. U, *upthrown side;* D, *downthrown side*

Breccia and shear zone

Anticline
Showing approximate position of crestline

Syncline
Showing approximate position of trough

Strike and dip of beds

Strike and dip of foliation

Strike and dip of joints

Strike of vertical joints

Vertical shaft

Adit

Prospect

Mine or quarry

Sand or gravel pit

Base map by Topographic Division
U. S. Geological Survey, 1952

TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1960

GEOLOGY OF THE SANTA FE QUADRANGLE, NEW MEXICO

SCALE 1:24 000

1 ½ 0 1 MILE

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C. 10121

Geology by Frank Kottlowski and Brewster Baldwin, assisted by Wayne Bundy, October 1951 to February 1952