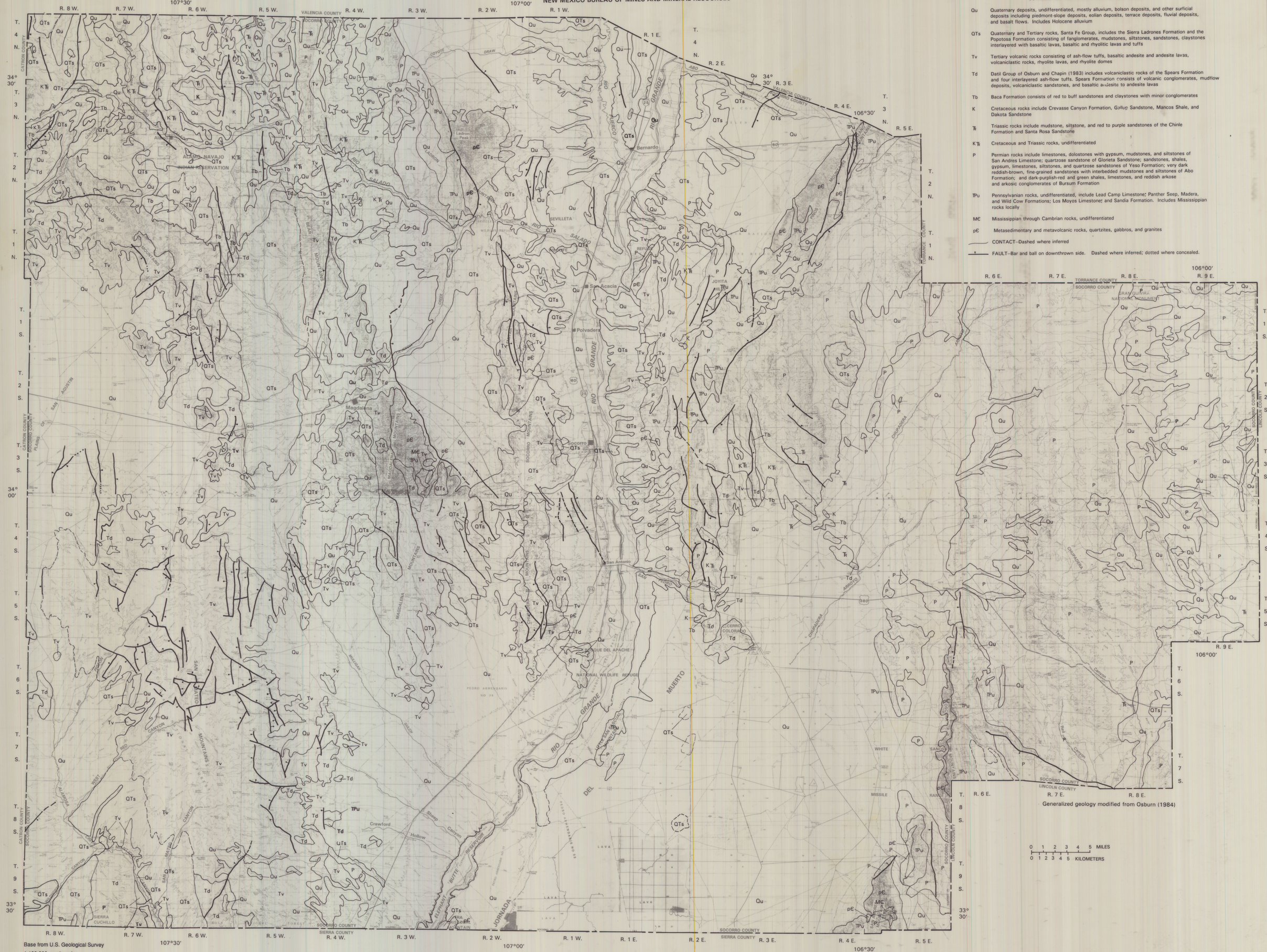
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
NEW MEXICO STATE ENGINEER OFFICE
and the
NEW MEXICO BUREAU OF MINES AND MINERAL RESOURCES

WATER-RESOURCES INVESTIGATIONS REPORT 89-4083
PLATE 1



EXPLANATION

CORRELATION AND DESCRIPTION OF MAP UNITS

Qu Quaternary deposits, undifferentiated, mostly alluvium, bolson deposits, and other surficial deposits including piedmont-slope deposits, eolian deposits, terrace deposits, fluvial deposits, and basalt flows. Includes Holocene alluvium

QTs Quaternary and Tertiary rocks, Santa Fe Group, includes the Sierra Ladrones Formation and the Popotosa Formation consisting of fanglomerates, mudstones, siltstones, sandstones, claystones interlayered with basaltic lavas, basaltic and rhyolitic lavas and tuffs

Tv Tertiary volcanic rocks consisting of ash-flow tuffs, basaltic andesite and andesite lavas, volcaniclastic rocks, rhyolite lavas, and rhyolite domes

Td Datil Group of Osburn and Chapin (1983) includes volcaniclastic rocks of the Spears Formation and four interlayered ash-flow tuffs. Spears Formation consists of volcanic conglomerates, mudflow deposits, volcaniclastic sandstones, and basaltic andesite to andesite lavas

Tb Baca Formation consists of red to buff sandstones and claystones with minor conglomerates

K Cretaceous rocks include Crevasse Canyon Formation, Gallup Sandstone, Mancos Shale, and Dakota Sandstone

Ꞧ Triassic rocks include mudstone, siltstone, and red to purple sandstones of the Chinle Formation and Santa Rosa Sandstone

KꞦ Cretaceous and Triassic rocks, undifferentiated

P Permian rocks include limestones, dolostones with gypsum, mudstones, and siltstones of San Andres Limestone; quartzose sandstone of Glorieta Sandstone; sandstones, shales, gypsum, limestones, siltstones, and quartzose sandstones of Yeso Formation; very dark reddish-brown, fine-grained sandstones with interbedded mudstones and siltstones of Abo Formation; and dark-purplish-red and green shales, limestones, and reddish arkose and arkosic conglomerates of Bursum Formation

TPu Pennsylvanian rocks, undifferentiated, include Lead Camp Limestone; Panther Seep, Madera, and Wild Cow Formations; Los Moyos Limestone; and Sandia Formation. Includes Mississippian rocks locally

M€ Mississippian through Cambrian rocks, undifferentiated

p€ Metasedimentary and metavolcanic rocks, quartzites, gabbros, and granites

CONTACT--Dashed where inferred

FAULT--Bar and ball on downthrown side. Dashed where inferred; dotted where concealed.

GENERALIZED GEOLOGIC MAP OF SOCORRO COUNTY, NEW MEXICO