

EXPLANATION OF GEOLOGIC MAP

(Letter abbreviations indicate geologic formations that crop out at the surface)

QUATERNARY
Qal - Alluvial floodplain deposits
Ql - Landslide deposits
Qtp - Terrace, pediments, and other deposits

TERTIARY
Tc - Chuska Sandstone
Tb - Extrusive igneous rocks
Tsj - San Jose Formation
Tn - Nacimiento Formation
Troa - Ojo Alamo Sandstone
TKi - Intrusive igneous rocks
Ksf - Kirtland Shale and Fruitland Formation
Kpc - Pictured Cliffs Sandstone
Kl - Lewis Shale
Kch - Cliff House Sandstone
Kmf - Manefee Formation
Kpl - Point Lookout Sandstone
Kcc - Crevasse Canyon Formation
Kgl - Gallup Sandstone
Khm - Mancos Shale (Kai, lower unit; Kmu, upper unit)
Kdm - Lower Mancos Shale and Dakota Sandstone, undivided
Kd - Dakota Sandstone

CRETACEOUS
J - Jurassic rocks, undivided
Jm - Morrison Formation
Jsr - San Rafael Group, undivided

JURASSIC
Tpc - Glen Canyon Group, undivided
T - Triassic rocks, undivided

TRIASSIC
Pc - Carboniferous

PERMIAN

FORMATION CONTACT -- Approximately located

HYDROLOGIC DATA EXPLANATION

○ 80' - WATER WELL--Number is depth of well below land surface, in feet; letters indicate geologic source of water. (See principal water-bearing unit(s) in table 1, and aquifer in table 2.)

○ 100' - WATER WELLS--Underlined symbol with number indicates the number of closely spaced wells at one location. Number with "x" is the number of wells in that section (one square mile).

⊙ - OBSERVATION WELL--Water-level measurements have been made periodically.

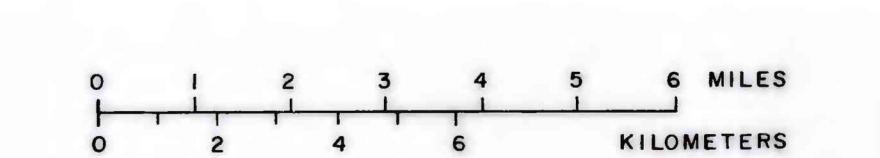
○ 10' - SPRING--Discharge generally greater than 10 gallons per minute (Tables 1 and 2); letters indicate probable geologic source of water. (See geologic formation abbreviation in tables 1 and 2.)

△ 12' - STREAMFLOW GAGING STATION--Active in 1982; number refers to station description and period of record in table 3.

⊗ - STREAMFLOW GAGING STATION--Discontinued prior to 1982; number refers to station description and period of record in table 3.

NOTE: Solid symbols (●, ▲, ●) indicate water-quality data are available.

* Ground-water level and surface-water discharge measurements, and water-quality data available from Meter Resources Division of U.S. Geological Survey, Albuquerque, New Mexico.



Base from U.S. Geological Survey 1:24,000 and 1:62,500 quadrangles

Geology adapted from Dane and Bachman (1965).

PLATE 1.--MAP SHOWING GEOLOGY AND LOCATIONS OF WATER WELLS, STREAMFLOW-GAGING SITES, AND SPRINGS IN SAN JUAN COUNTY, NEW MEXICO.