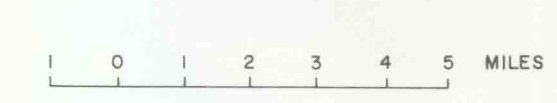


EXPLANATION

- Qal** Younger alluvium  
Honeycombed caliche, uncemented gravel, sand, silt, and clay. Yields as much as 1500 gpm of fair quality water, where reported to be 100 feet thick
  - Qds** Dune sand  
Uncemented fine- to medium-grained sand. Not known to yield water to wells in De Baca County
  - Qab** Older alluvium, terrace deposits, and caliche  
Uncemented caliche, gravel, sand, silt, and clay; 0-200 feet thick. Yields as much as 1300 gpm of fair quality water where 100-200 feet thick
  - QTP** Pediment deposits  
Weakly cemented gravel, sand, silt, and clay, and a caliche cap; 0-200 feet thick. Generally above the water table
  - To** Ogallala Formation  
Weakly cemented gravel, sand, silt, and clay, with caliche cap, 0-100 feet thick. Yields a few gallons per minute of good quality water
  - TKI** Igneous rock  
Trachyte (?) sill; intrudes Artesia Formation. Not water bearing
  - Rc** Chinle Formation  
Variegated shale (predominantly red and brown) with interbedded thin sandstone; 0-850 feet thick. Yields a few gallons per minute of fair to poor quality water
  - Rs** Santa Rosa Sandstone  
Red, brown, and gray sandstone with intercalated shale and conglomerate; 0-240 feet thick. Yields as much as 1000 gpm of fair quality water
  - Pa** Artesia Formation  
Interbedded red and salmon-colored shales, red and gray sandstones, limestone, silt, anhydrite, and gypsum; 0-335 feet thick. Yields less than 10 gpm of poor quality water
  - Psa** San Andres Limestone  
Upper part- interbedded dolomite, anhydrite, gypsum, shale, and silt. Lower part- massive limestone, anhydrite, and dolomite beds. 365-250 feet known thickness. Yields a few gallons per minute of poor quality water
- Geologic Contact  
Dashed where approximately located; dotted where concealed
- Fault  
Dashed where approximately located or inferred; dotted where covered. Symbol indicates downthrown side
- A—A'  
Line of diagrammatic section (plate 2)

Base map adopted from New Mexico State Highway Commission Planning Map, 1958.

Reconnaissance geologic mapping and photo interpretation by W.A. Mourant and J.W. Shomaker.



RECONNAISSANCE GEOLOGIC MAP OF DE BACA COUNTY, NEW MEXICO