



EXPLANATION

These areal
 Clay, sandstone and mature chert. Chert nodules common. Dose sand lies above water table and yields no water to wells. Former catchment area for recharge of the ground-water reservoir.

Albion
 Sand and gravel containing silt and clay. Yields water to domestic and stock wells in many areas. Mapped area includes former deposits and Mendota formation.

Extrusive rocks
 Dense olive basalt. Yields no water to wells.

Daguerre formation
 Sand, gravel, silt, clay, and calcareous shale. Yields water to domestic and stock wells in many parts of the county. Mapped area includes former deposits and Mendota formation.

Intrusive rocks
 Basalt and porphyry dikes. Yields no water to wells.

Nickerson formation
 Thick-bedded cherty limestone. Yields small quantities of water to a few springs in northeastern part of county.

Carlisle shale
 Shale, cherty limestone, and bituminous limestone. Yields small quantities of water to a few springs in northeastern part of county.

Greenhorn limestone
 Thin-bedded limestone and platy shale. Yields small quantities of water to a few springs, wells, and wells in northwestern part of county.

Canonville shale
 Gray to black platy shale. Yields no water to wells.

Dakota sandstone
 Thin-bedded to massive sandstone and platy sandy shale. Yields small to moderate quantities of water to domestic, stock, industrial, municipal, and irrigation wells.

Furgerson formation
 Upper member, brown shale, gray to black platy calcareous shale, lower member, cherty sandstone, massive to buff fine-grained sandstone. Cherty sandstone yields small to large quantities of water to domestic, stock, industrial, municipal, and irrigation wells.

Morrison formation
 Variedly bedded sandstone and shale and platy limestone. Not known to yield water to wells.

Entrada sandstone
 Massive white to buff fine to medium-grained sandstone. Yields water to one well in Basco County.

Dickinson group
 Shale, sandstone, and limestone. Yields small quantities of very hard water to a few wells.

Thurgis formation (of Ogallala)
 Thin-bedded sandstone and shale. Yields no water to wells in Basco County.

Contact
 Dashed where approximately located

Inferred contact
 Dotted

Domestic and stock wells
 Open circle

Flow well
 Circle with a dot

Spring
 Circle with a cross

Municipal well
 Circle with a square

Industrial well
 Circle with a triangle

Irrigation well
 Circle with a diamond

Observation wells
 Circle with a plus sign

Upper figure is well number used in table 9. Brackets (22) indicate that analysis of water from well is given in table 6. Lower figure is depth in feet to water level below land surface.

Isobath lines, drawn along points of equal depth to water.
 Data adequate for showing isobaths only in the eastern part of the county.

Approximate area of artesian flow in the Wash station area.

NEW MEXICO

OKLAHOMA

Base modified from maps prepared by the Soil Conservation Service and Colorado State Highway Department.

Geology and hydrology by Fred G. McLaughlin, 1947-1948.
 Distribution of clay sand taken from soil maps prepared by United States Department of Agriculture.

MAP SHOWING AREAL GEOLOGY AND LOCATION OF WELLS AND SPRINGS AND DEPTH TO WATER IN BACA COUNTY, COLORADO