

EXPLANATION

<p>Recent</p> <p>Quaternary</p> <p>Pleistocene</p> <p>Pliocene</p> <p>Lower-Cretaceous</p> <p>Upper-Jurassic</p>	<p>QUATERNARY</p> <p>Upper-Triassic</p> <p>TRIASSIC</p> <p>TERTIARY</p> <p>CRETACEOUS</p> <p>JURASSIC</p>
<p>Qd Dune sand Loose windblown sand; 0-100 feet thick. Not known to yield water to wells</p> <p>Qal Younger alluvium Sand, gravel, silt, and clay; 0-80 feet thick. Yields 0.25-9 gpm of good quality water to wells</p> <p>Qc Upland cover of older alluvium Unconsolidated silty sand, clay, and gravel; 0-600 feet thick. Yields 0.25-325 gpm of poor to good quality water to wells</p> <p>To Ogallala Formation Caliche and stratified gravel, sand, silt, and clay; 0-250 feet thick. Yields 0.1-1600 gpm of good quality water to wells</p> <p>Ks Sandstone and shale Pajarito Shale 0-80 feet thick, Mesa Rica Sandstone 0-120 feet thick, and Tucumcari Shale 0-60 feet thick. Yields 0.5-3 gpm of good quality water to wells</p> <p>Jm Morrison Formation Variegated red and blue clay, blue shale, and buff sandstone; 0-240 feet thick. Yields 1-2 gpm of good quality water to wells</p> <p>Je Entrada Sandstone Fine- to medium-grained, poorly cemented, light-buff to white sandstone, some limestone and siltstone; 0-240 feet thick. Yields 1.5-250 gpm of good quality water to wells</p> <p>Js Shale and siltstone Age relation to other Jurassic rocks is unknown. Not water-bearing</p>	<p>Tc Redonda and Chinle Formations Red shale, siltstone, sandstone, variegated red and blue clay, and limestone; 0-1250 feet thick. Yields 0.1-20 gpm of very poor to fair quality water to wells</p> <p>Tsr Santa Rosa Sandstone Gray or red irregularly bedded sandstone, clay, shale, and conglomerate; 220-450 feet thick. Yields 1-50 gpm of good quality water to wells</p> <p>Contact Dashed where approximately located</p> <p>Fault Dashed where approximately located; dotted where concealed</p> <p>A—A' Line of diagrammatic section Section A-A' shown on Plate 3 Section B-B' shown on Plate 4 Section C-C' shown on Plate 5</p>



GEOLOGIC SOURCE INFORMATION

1. Dobrovolsky, Ernest, Summerson, C. H., and Bates, R. L., Geology of Northwestern Quay County, USGS Oil and Gas Preliminary Map-62, 1946, generalized by C. F. Berkstresser, Jr.
2. Reconnaissance geologic mapping and photo interpretation by C. F. Berkstresser, Jr. (area of Bonita Faultzone mapped by Alfred Clebsch, Jr.), in part adapted from Darton, N. H., Geologic Map of New Mexico, 1928
3. Spiegel, Z. E., unpublished field mapping, slightly modified by C. F. Berkstresser, Jr.

GEOLOGIC MAP OF QUAY COUNTY, NEW MEXICO