

**EXPLANATION**

	<b>Qal</b>	<b>Alluvium</b>
<i>Unconsolidated silt, clay, sand, and gravel as much as 110 feet thick; locally may overlie, intertongue with, or underlie Quaternary basalt. Yields adequate quantities of water to shallow stock and domestic wells at many places and locally yields water for irrigation</i>		
	<b>Qbb Qbl Qbz</b>	<b>Basalt</b>
<i>Dark-gray to black dense to vesicular basalt, ash, and cinders emplaced as low cones and valley flows. Qbb, Bluewater Basalt Flow; Qbl, Laguna Basalt Flow; Qbz, Zuni Canyon Basalt Flow. Yields adequate quantities of water to shallow stock and domestic wells at many places</i>		
	<b>Qit</b>	<b>Landslide and talus material</b>
	<b>Qsl</b>	<b>Spring-deposited limestone</b>
	<b>Te</b>	<b>Extrusive rocks</b>
<i>Flow rocks capping Grants Ridge; include some rhyolite and tuff breccia</i>		
	<b>Tcrl Tcm</b>	<b>Chinle Formation</b>
<i>Variagated siltstone and mudstone containing interbedded silty and conglomeratic sandstone. Tcrl, middle part, 60 to 200 feet thick; Tcm, lower part, 100 to 500 feet thick. The sandstone units yield adequate quantities of water for stock and domestic supplies and locally yield water for irrigation</i>		
	<b>Psa</b>	<b>San Andres Limestone</b>
<i>Thick-bedded to massive light-gray limestone, sandy limestone, and limy sandstone; locally cavernous; 95 to 170 feet thick. Yields adequate quantities of water for irrigation, industrial, and municipal supplies</i>		
	<b>Pg</b>	<b>Glorieta Sandstone</b>
<i>Thick-bedded to massive well-sorted medium-grained white to yellowish-gray sandstone with limonitic flecks; some siltstone interbedded in lower parts; 125 to 300 feet thick. Yields water to irrigation, industrial, and municipal wells. Contributes water by vertical leakage to the San Andres Limestone in areas of heavy pumpage from the San Andres</i>		
	<b>Py</b>	<b>Yeso Formation</b>
<i>Orange to red siltstone and fine-grained silty sandstone, containing a few thin beds of limestone in the lower middle part and thick-bedded to massive crossbedded fine-grained silty sandstone in basal part; 350 to 875 feet thick. Partly oypsiferous. Yields adequate quantities of water for stock and domestic supplies in and near outcrop areas and locally yields water for irrigation</i>		
	<b>Pa</b>	<b>Abo Formation</b>
<i>Dark-brick-red to reddish-brown arkosic sandstone and siltstone; partly conglomeratic in basal part; 500 to 800 feet thick. Water-bearing properties not determined. Includes strata of possible Pennsylvanian age</i>		
	<b>pC</b>	<b>Precambrian rocks undivided</b>
<i>Granite, gneiss, metahyolite, schist, and greenstone</i>		

**CONTACT**

**FAULT**

*Dashed where approximately located; dotted where concealed; queried where doubtful; U, upthrown side; D, downthrown side*

**ESCAPMENT**

**SPRING**

**WELLS**

	<b>Principal use of water</b>	<b>Principal aquifer</b>
	Domestic and (or) stock well	Alluvium and (or) basalt
	Industrial, irrigation, or municipal well	Chinle Formation
		San Andres and (or) Glorieta Formation
		Yeso Formation
		Other aquifer or aquifer not determined

**WELL DATA**

*s, indicates well used for chemical sampling. Upper number indicates altitude of water level, in feet above mean sea level; lower number indicates month and year of measurement*

**WATER-LEVEL CONTOUR**

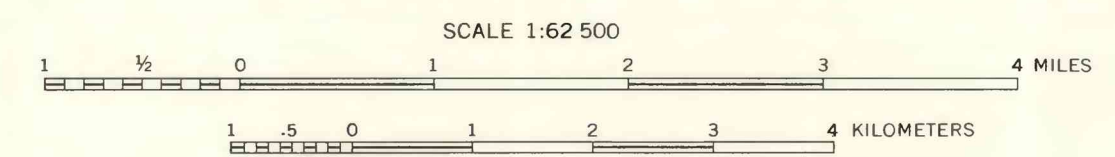
**6600**

*Shows altitude of water level in the alluvium and basalt. Dashed where approximately located. Queried where probable or doubtful. Contour interval 10 feet. Datum is mean sea level*

**6440**

*Shows altitude of water level in the San Andres and Glorieta Formations. Dashed where approximately located. Queried where probable or doubtful. Contour interval 10 feet. Datum is mean sea level*

Base from U.S. Geological Survey and Soil Conservation Service planimetric maps, 1957



**GEOHYDROLOGIC MAP OF THE GRANTS AREA IN WHICH THE ANACONDA CO. DISPOSAL WELL 1 AND URANIUM-MILL TAILINGS POND ARE LOCATED, VALENCIA COUNTY, NEW MEXICO**

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Geology and hydrology from Gordon (1961, pl. 1)