

OPEN-FILE REPORT  
OF-82-818A

CORRELATION OF MAP UNITS

Qa	}	Holocene	}
Qr			
Qls			

Ova	}	}
Osb		
nonconformity		
Tr	}	}
Taq		
		Pliocene

Kilburn } Upper Cretaceous } (RETACIOUS)

DESCRIPTION OF UNITS

SURFICIAL SEDIMENTS (Miocene) - Stream channel, flood plain, fan deposits, and valley alluvium

Unconsolidated boulder to sandy gravel deposits

Landslide debris

OLDER SURFICIAL SEDIMENTS (Pliocene) - Sandy to silty alluvial fan deposits

Upper alluvial boulder to gravel terrace deposits

Nomadic sandstone (Pliocene) - Along Lower Rincon Creek, consist of thin bedded sandstone to gray silty sandstone, gravels, sands, and clays (Gillies, 1966, p. 82). In Upper Old Valley, consist of thin bedded sandstone to silty sandstone, sands, and clays (Gillies, 1968)

SANTA BARBARA FORMATION (Pliocene) - Buff to yellow, fine to medium grained sandstone, silty sandstone, and clay

**Piedra Blanca Sandstone of Sadger (1979):** Light gray to buff, massive to coarse-bedded, fine to medium grained, arkose to argillaceous sandstone. The sandstone contains many problems for this unit are summarized by Reid (1978, p. 27-41) who refers it to the "B" group.

**VACHOS SANDSTONE (upper Gilgoceno to lower Miocene):** Light gray to buff, well sorted, fine to coarse-grained, fossiliferous sandstone. It occurs in two types: (1) massive, cross-bedded and crossbedded and contain thin siliceous layers (Dibble, 1966, p. 107), and (2) poorly sorted, micaceous.

**SAGE FORMATION (late Eocene and early Oligocene):** Light tanish to red-brown, thick, resistant beds composed of 75% sandstone; 15% siltstone and 10% claystone. The sandstone is similar to the Santa Vera Fault (Dibble, 1966, p. 37). Sandstones are fine to medium grained, moderately to well sorted, and have moderate cementation. This [2-ml] red to green siliceous interbeds are moderately porous and friable. The claystone is dark gray to black, micaceous, and like brownish (Fritzsche, 1978, p. 77). And also decreases in thickness from west to east. The formation has some secondary structures such as mudcracks, raindrop pits, large scale columnar jointing, etc. The claystone is highly fissile and has depositional environment (Madsen, 1975, p. 238). The sequence of strata in the area is summarized in Figure 2. Other features include:

- Predominantly basal conglomerate, but in the vicinity of Chihuahua City, the base of the Vachos Sandstone is light gray to yellowish gray coarse grained sandstone and reddish and brownish claystone. These are described by Fritzsche (1978, p. 77).

**COLUMBIAN SANDSTONE (late Eocene)-** White to light tan, moderately to well sorted, moderately resistant, fine to well-sorted, arkose to argillaceous sandstone. The sandstone is massive to coarsely bedded.

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