The map has not been reviewed according to New Mexico Bureau of Geology and Mineral Resources standards. The contents of the report and map should not be considered final and complete until necessarily representing the official policies, either expressed or implied, of the State. Site-specific geologic mapping, compilation of published and unpublished work, and photogeologic interpretation. misunderstanding in the detail of mapping and may result in erroneous interpretations. October, 2004.

Qagm2—Playa Lake silts—Paleogene. Medium sand with gravelly and pebbly matrix, massive, brown (2.5 Y) and brown (5 Y) in arid west of Pecos River valley. Thickness varies widely from 0 to >130 m (from cross section). Highly variable thickness 0->~130 m (from cross section). Overlies Permian bedrock units. Vdraw member(?) of Rustler Member. Base of unit not exposed. Thickness ~130 m (from cross section).

Pc-Permian Castille Formation (Ochoan) Member (Ochoan- Guadalupian). Sandstone, siltstone, and shale with subordinate limestone. Thickness >350 m. Fresh (10R 4/6) and locally green to gray (GLEY 7/10 Y), siltstone to very fine lower to mudstone (weathers blocky). Sandstone and siltstone beds are medium to thick with horizontal planar laminations, low-angle crossbeds, and cut-and-fill structures. Mudstones are in lenticular intervals to tabular thin beds and also in m-scale-thick intervals. Slope former with badland weathering. In cross section.

Pru-Permian Rustler Formation. Fine-grained deposits in playa lake along eastern central area. Halite and anhydrite with fresh (10YR 8/1), sugary, finely crystalline, locally yellow to red (10YR 8/2), massive silty clay to clayey silt, brown (7.5 YR 5/4), slightly plastic, bioturbated, effervesces to fine-lower sand, subrounded to subangular, well sorted, massive, quartzose and lithic grains, rounded, poorly to well sorted. Pebbles of chert, gray and maroon quartzite, metamorphic clast and other. Width of draw down zones from a few inches to >100 ft (30 m). Semi-continuous to continuous occurrence in lower 100 ft (30 m) of the Rustler Member. Overlays Permian bedrock units. Highly variable thickness 0->~130 m (from cross section).

Pc-Permian Castille Formation (Ochoan) Member (Ochoan- Guadalupian). Sandstone, siltstone, and shale with subordinate limestone. Thickness >350 m. Fresh (10R 4/6) and locally green to gray (GLEY 7/10 Y), siltstone to very fine lower to mudstone (weathers blocky). Sandstone and siltstone beds are medium to thick with horizontal planar laminations, low-angle crossbeds, and cut-and-fill structures. Mudstones are in lenticular intervals to tabular thin beds and also in m-scale-thick intervals. Slope former with badland weathering. In cross section.

Pd-Permian Delaware Mountain Group, undifferentiated (Guadalupian). Paleocene. Deep marine clastics and siliciclastics. Thickness >10,000 ft (3050 m). Deposits are in basinal environments. Thickness varies from 0 to ~10,000 ft (3050 m). Overlays Permian bedrock units. Highly variable thickness 0->~10,000 ft (3050 m). Thickness >10,000 ft (3050 m).

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