CORRELATION OF MAP UNITS

Quaternary

Lower Permian

Permian

DESCRIPTION OF MAP UNITS

Alluvium and Terrace Deposits—Fine to coarse sand, silt, and clay, with some layers of gravel in the lower part; maximum thickness of each unit about 30 ft.

Hermessey Group (Lower Permian)—Nestly reddish-brown shale and some thin beds of very fine-grained sandstone and siltstone; maximum thickness about 300 ft. Includes the Rison Formation, Salt Plains Formation, Kingsman Siltstone, and Fairview Shale.

Carrizo Sandstone (Lower Permian)—Orange-brown to reddish-brown massive and cross-beded fine-grained sandstone interbedded with sandy shale, some siltstone, and some chert and sandstone conglomerate; maximum thickness about 400 ft.

Wellingston Formation (Upper Permian)—Reddish-brown shale and massive and cross-beded fine-grained sandstone; maximum thickness about 500 ft.

Contact

Figure 3.—Geologic map of southern Logan and northern Oklahoma Counties, Oklahoma.