

LIST OF PLATES

Plate 1. Hydrogeology of the Mesilla Basin region, south-central New Mexico, and adjacent parts of Texas and Chihuahua, Mexico. Includes locations of key wells and hydrogeologic sections.

Plates 2-9. Compiled and modified from Seager and others (1982, 1987), Hawley and Lozinsky (1992), Seager (1995).

Plates 2 to 7. Hydrogeologic sections, with borehole geophysical and geochemical data, and interpretations of lithofacies assemblages (*LFAs*) and hydrostratigraphic units (*HSUs*). Section locations shown on Plate 1; base elevation 1,500ft asl, with irregular horizontal scale. Selected information on 56 key wells, including chemical analyses of water samples and hydrostratigraphic correlations, summarized in Appendix A — Tables 1 and 2.

Plate 2. Afton Test Well (MT 1) to Mesquite. Modified from Plate 3 of Hawley and Lozinsky (1992).

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Plate 5. Las Cruces West Mesa to Santa Teresa, including Afton (MT 1) and Lanark (MT 2) Test Wells. Modified from Plate 9 of Hawley and Lozinsky (1992).

Plate 6. Las Cruces Fire Station to Vado. Modified from Plate 10 of Hawley and Lozinsky (1992).

Plate 7. Vado to Lizard Siding (SPRR). Modified from Plate 11 of Hawley and Lozinsky (1992).

Plates 8 and 9. Schematic hydrogeologic sections of the Mesilla Basin between Las Cruces and El Paso, showing inferred distribution of major lithofacies assemblages (LFAs), hydrostratigraphic units (HSUs) and fault zones. Section locations shown on Plate 1, with the same horizontal scale; base elevation 1,000ft asl and 10x vertical exaggeration. Modified from Plates 16 and 17 of Hawley and Lozinsky (1992).

Plate 8. West to east sections

Plate 8a. West Mesa-Fairgrounds to Mesilla Valley-Las Cruces Fire Station.

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Plate 8d. West Mesa-La Union Test Well to Mesilla Valley-Vinton.

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Plate 9. North to south sections

Plate 9a. Inner Mesilla Valley—Las Cruces Fire Station to Lizard Siding, via Vado (**Plates 6 and 7** alignment).

Plate 9b. Las Cruces West Mesa to Santa Teresa (Plate 5 alignment).

Plate 9c. Western basin area—Afton Test Well to Noria , via Lanark Test Well.