LIST OF PLATES—MESILLA AND JORNADA BASINS

Plate 1. Hydrogeology of the Mesilla and Jornada Basin region and adjacent parts of Texas and Chihuahua, Mexico

Plate 2. Well index map

Plate 3. Transverse Hydrogeologic Sections across the “Lower” Jornada del Muerto and, “Upper” Mesilla Basins, New Mexico

3a. Section A-A’ – Jornada (del Muerto) Basin: Rincon Valley and Tonuco Uplift to San Andres Mountains

3b. Section B-B’—Norther Dona Ana Uplift and Jornada Basin: Upper Mesilla Valley at Leasburg Dam to San Andres Mountains.

3c. Sections C-C’ – Upper Mesilla Valley and Jornada Basin: Robledo and Dona Ana Uplifts to southern San Andres Mountains


3e. Section E-E’ – Mesilla Valley and Northern Mesilla Basin: Las Cruces airport to Organ Mountains.

3f. Section F-F’ – Mesilla Valley and Tortugas uplift: West Mesa area of Mesilla Basin to southern Organ uplift.

Plate 4. Transverse Hydrogeologic Sections across the “Lower” Mesilla Basin and Paso del Norte area, New Mexico, Texas and Chihuahua.


4b. Section H-H’ – Central Mesilla Basin and Valley: Aden volcanic center to La Mesa-Vado area and Fillmore Pass.

4c. Section I-I’ – Central Mesilla Basin and Valley: East Potrillo Uplift and Afton volcanic field to Gadsden-Anthony area and Franklin Mountains.

4d. Section J-J’ – Southern Mesilla Basin and Valley: East Potrillo Mountains to La Union—Canutillo area and Franklin Uplift.

4e. Section K-K’ – Southern Mesilla Basin and lower end of Mesilla Valley: East Potrillo uplift to Santa Teresa-NW El Paso area.
4f. Section L-L’ – Southern Mesilla Basin and Paso del Norte: Bolson de los Muertos to Sierra Juarez—Cristo Rey Uplift and UTEP area.

Plate 5. Longitudinal Hydrogeologic Sections along eastern border, inner Rio Grande Valley, and “West Mesa” areas of the Mesilla Basin.

5a. Section M-M’ – Easter Mesilla Basin Border: Dona Ana Mountains to Tortugas and Bishop Cap uplifts.

5b. Section N-N’ – Fillmore Pass: Bishop cap uplift to Northern Franklin Mountains.

5c. Section O-O’ – Mesilla Valley Floor and southeastern Mesilla Basin: Las Cruces to International Boundary area SE of Santa Teresa.

5d. Section P-O’ – West Mesa (La Mesa) area of the Mesilla Basin: US-70 near Las Cruces Airport to International Boundary area SE of Santa Teresa.


Plate 7. Base of Santa Fe Group Map

LIST OF PLATES—RINCON VALLEY ADDENDUM


Plate R2. Map showing locations of selected reference wells (Table A5) and hydrogeologic sections (Plates R4 and R5) in the Rincon Valley area.

Plate R3. Structure-contour map (ft asl) of the base of the Santa Fe Group in the Rincon Valley and adjacent parts of the southern Palomas and Jornada Basins. Surface and subsurface hydrogeologic control from referenced Plate R1 sources (Tables A1 and A5, Plates R4 and R 5).
**Plate R4.** Transverse Hydrogeologic Sections across the Rincon Valley and adjacent parts of the southern Palomas and Jornada Basins between Caballo Dam and Selden Canyon.

**R4a.** Hydrogeologic Section RA-RA’ – Central Palomas Basin and upper Rincon Valley: Animas uplift to Red Hills

**R4b.** Hydrogeologic Section RB-RB’—Southern Palomas Basin and Upper Rincon Valley: Southern Animas uplift to Derry Hills

**R4c.** Hydrogeologic Section RC-RC’ – Eastern Uvas Valley and Central Rincon Valley: Nutt-Hockett Basin to Southern Caballo uplift.

**R4d.** Hydrogeologic Section RD-RD’ – Central Rincon Valley: Northern Uvas uplift to southern Red House (Caballo) uplift.

**R4e.** Hydrogeologic Section RE-RE’ – Lower Rincon Valley and southern Jornada Basin: Uvas uplift to San Andres uplift.

**R4f.** Hydrogeologic Section RF-A-A’ – Lower Rincon Valley, Tonuco uplift, and southern Jornada Basin: Uvas uplift to southern San Andres Mountains (includes Plate 3a—Section A-A’ of Hawley and Kennedy 2004).

**Plate R5.** Longitudinal Hydrogeologic Section CD-LC – Rincon, Selden Canyon and upper Mesilla segments of the inner Rio Grande Valley: Caballo Dam to Las Cruces, via Leasburg Dam (connects at US-70 in Las Cruces with Plate 5c—Section O-O’ of Hawley and Kennedy 2004).