Locations of the 62 wells that were studied are shown in figure 2-1. Gas and water production at the first sample time is summarized in figure 2-2, with gas and oil production at the first sample time in figure 2-3. Changes in water and gas production over five-year intervals are shown as vectors in figure 2-4, with the normalized vectors in figure 2-5. Production plots for 10 of these 62 wells are shown in figures 2-6 through 2-15; two vertical lines show time of first and second samples. Section, township, and range are given below API number for each well. Production interval depths shown on plots.  [mcf, thousand cubic feet; mmcf, million cubic feet; bbl, barrels]

Figure 2-1. Map of wells in this study for the Dakota J Interval, Wattenberg field. Wrench faults taken from Higley and others (2003). Contours of estimated ultimate recovery from Hu and Sembroski (2011).

Figure 2-2. First sample water and gas production.

Figure 2-3. First sample oil and gas production.

Figure 2-4. Change in water and gas production over 5-year interval.

Figure 2-5. Normalized change in gas and water production over 5-year interval.

Plate 2. Gas, Oil, and Water Production from the Dakota J Interval, Wattenberg Field, Denver Basin, Colorado

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