

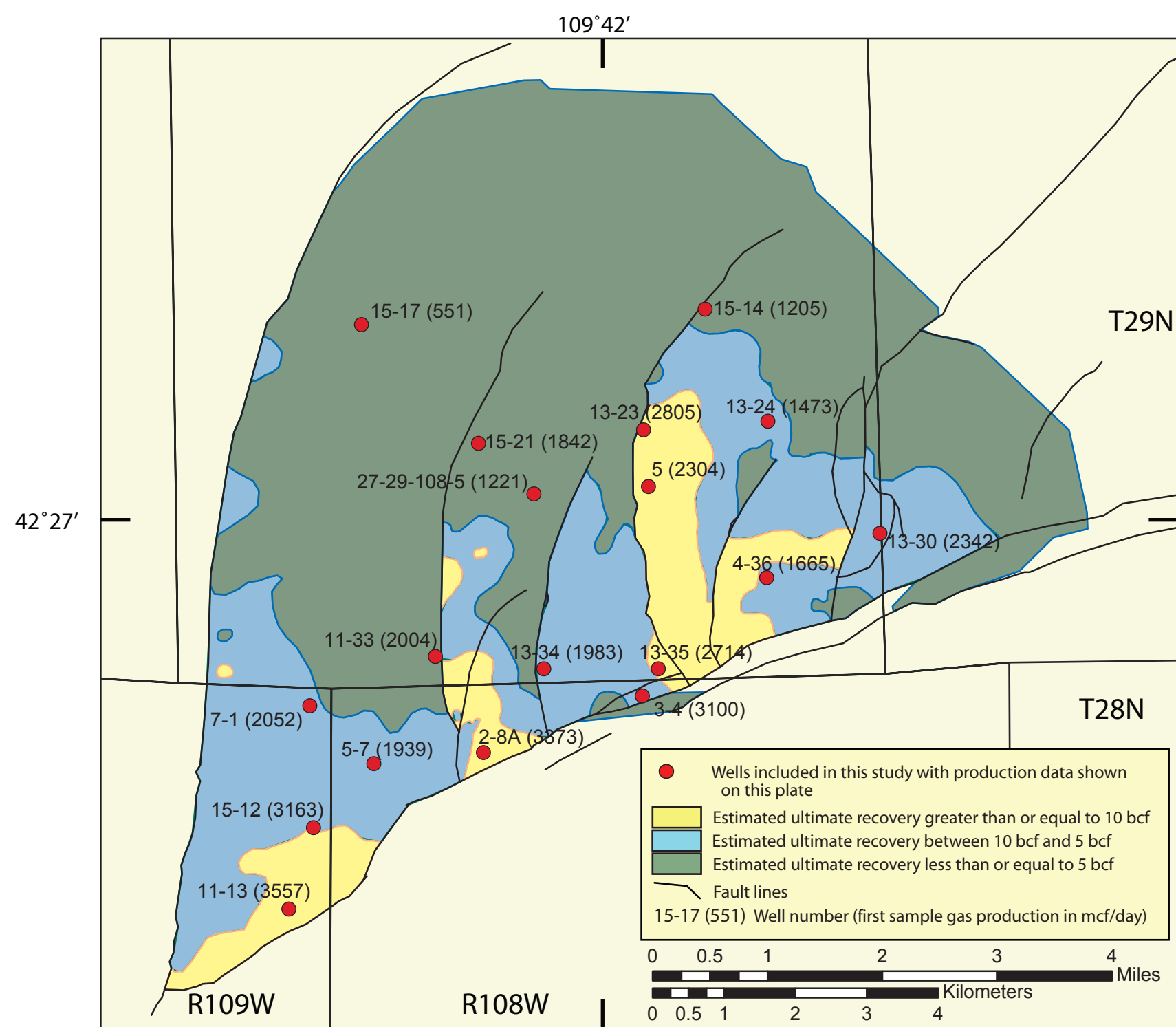
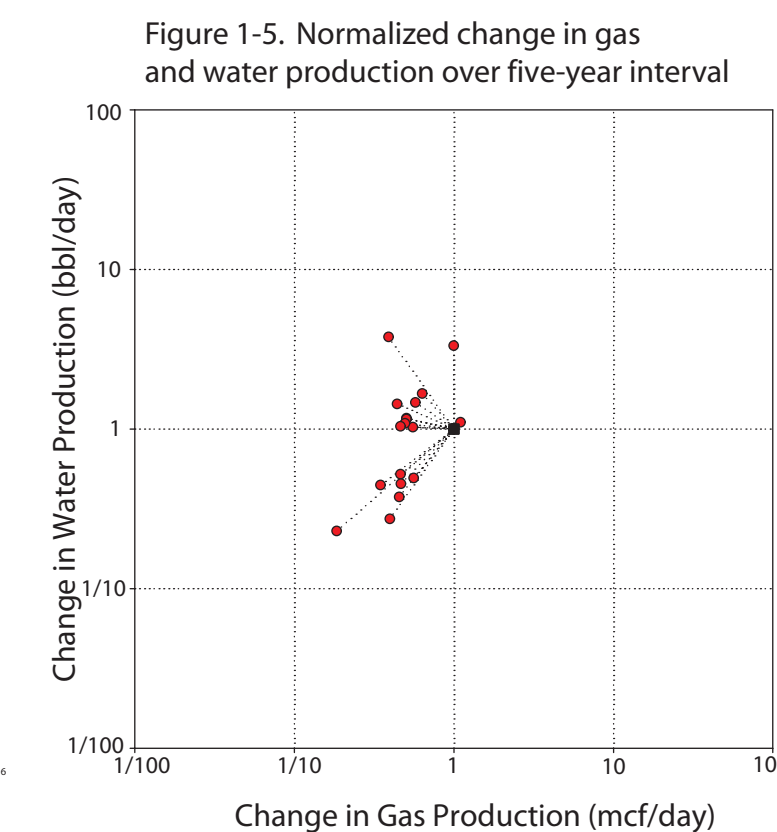
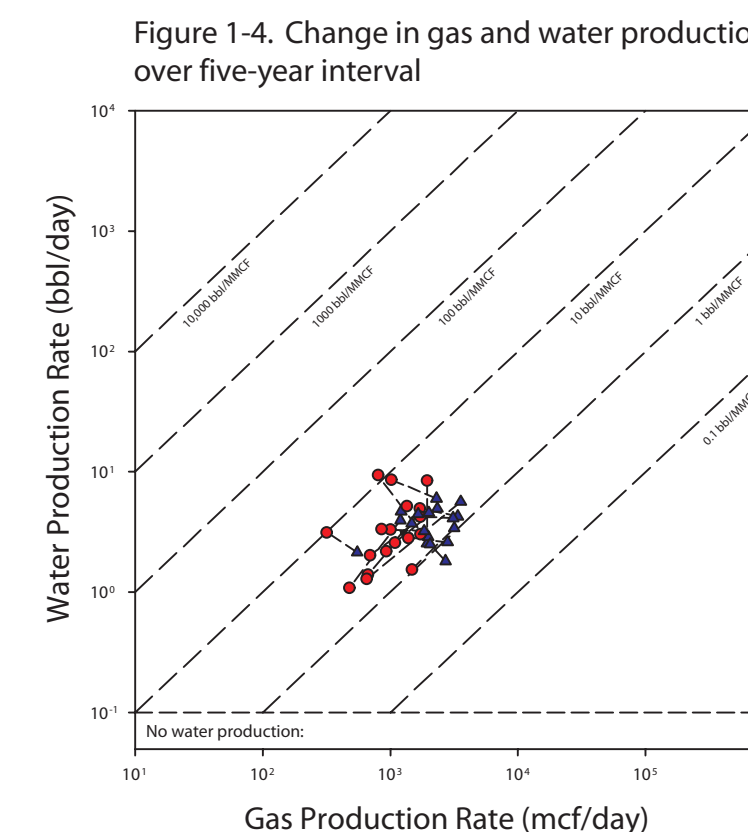
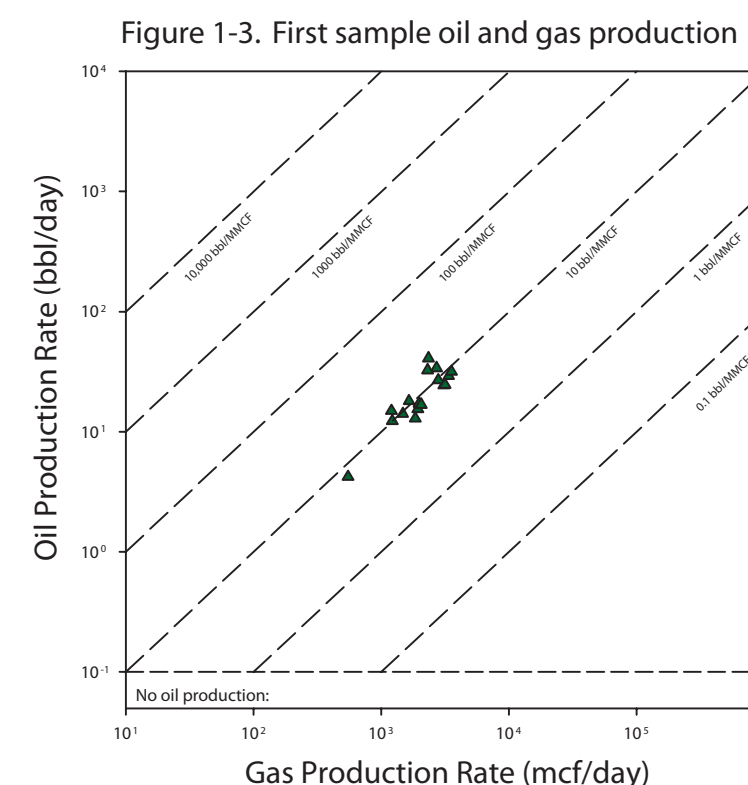
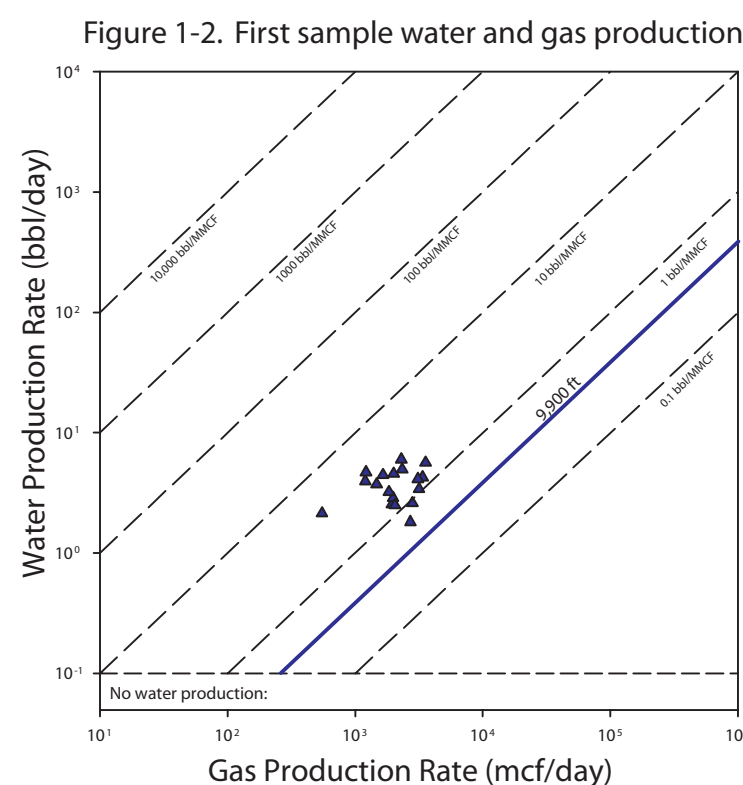


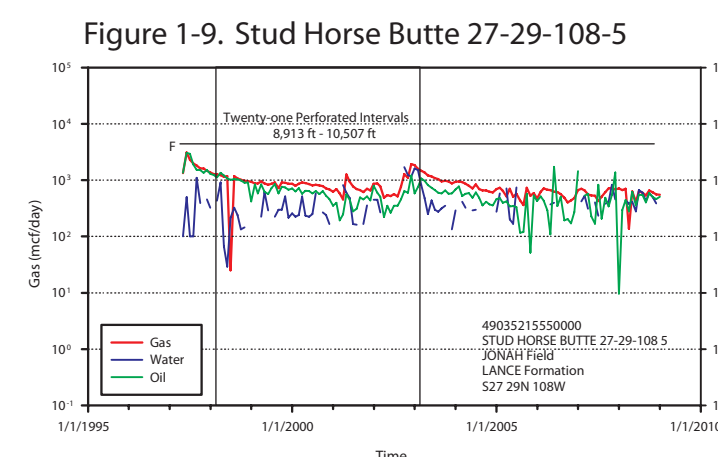
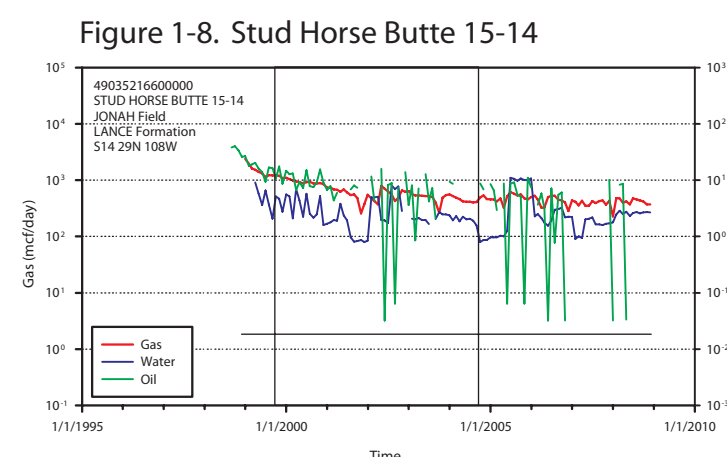
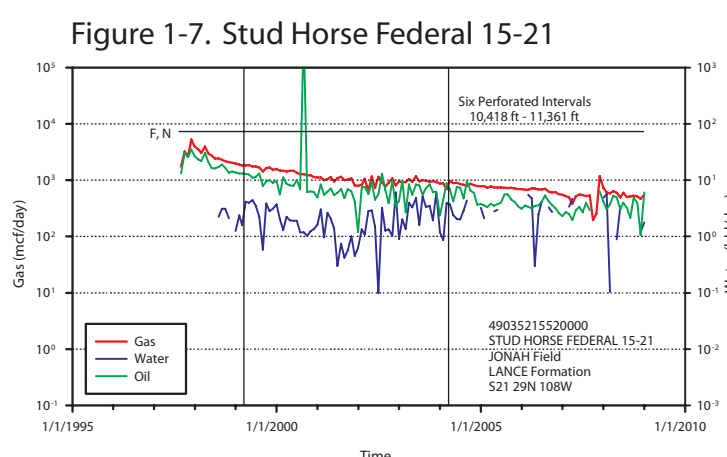
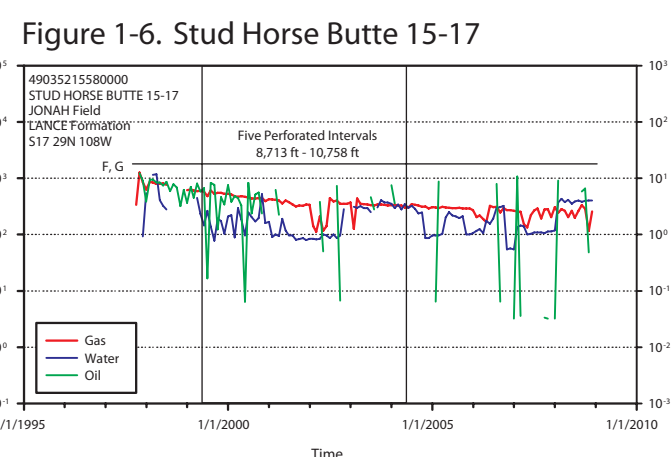
Figure 1-1. Map of selected wells in this study in the Jonah field, after Dubois and others (2004).



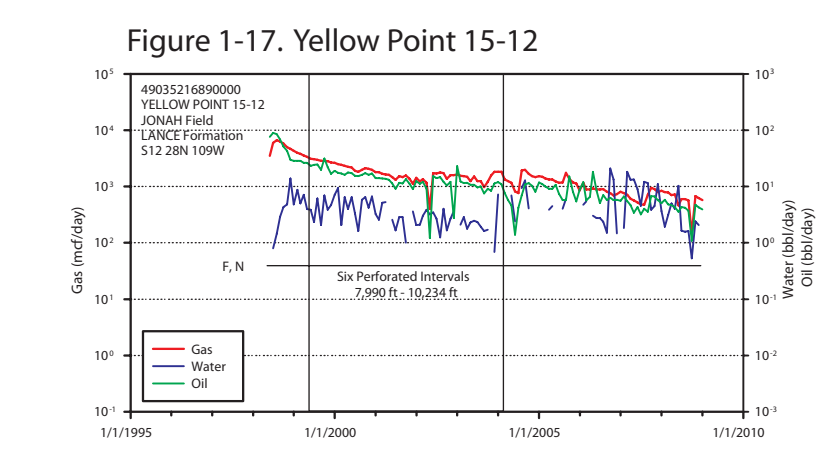
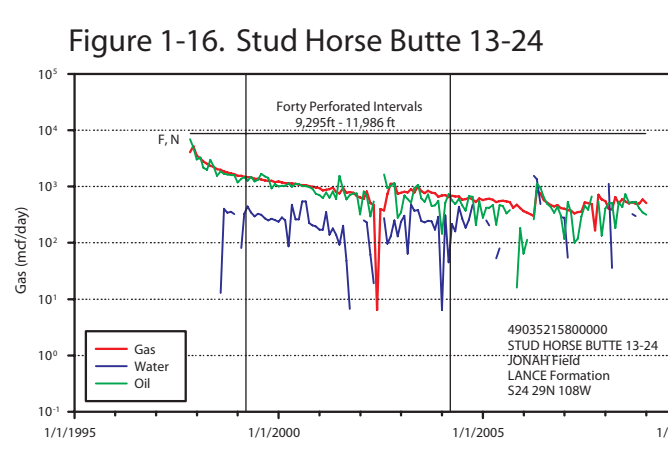
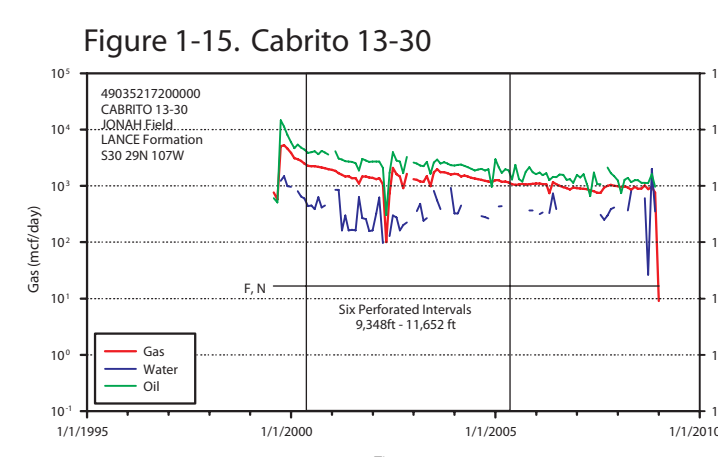
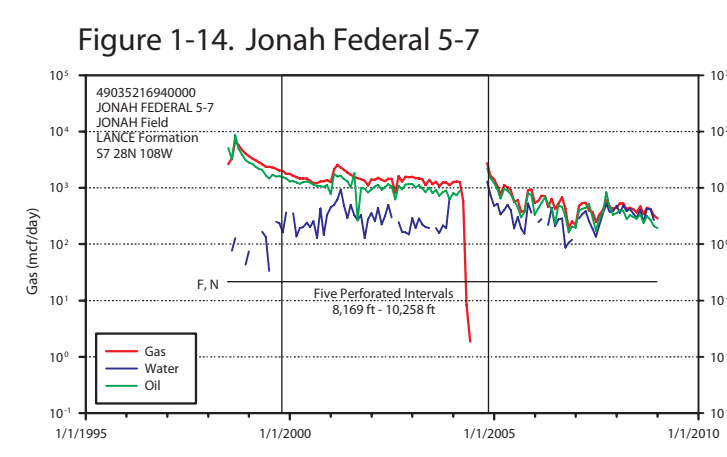
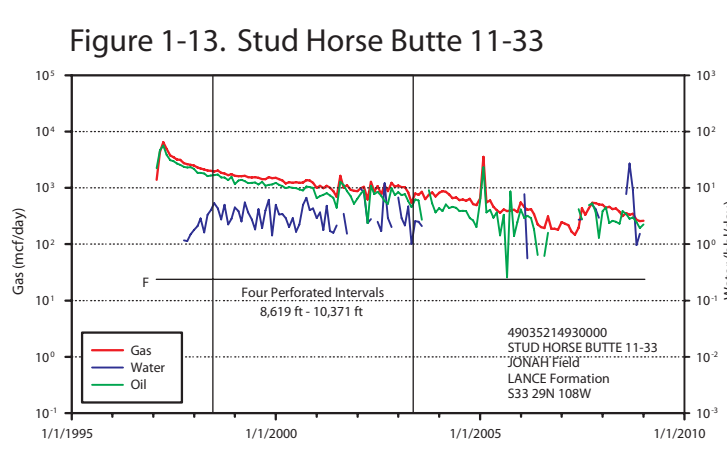
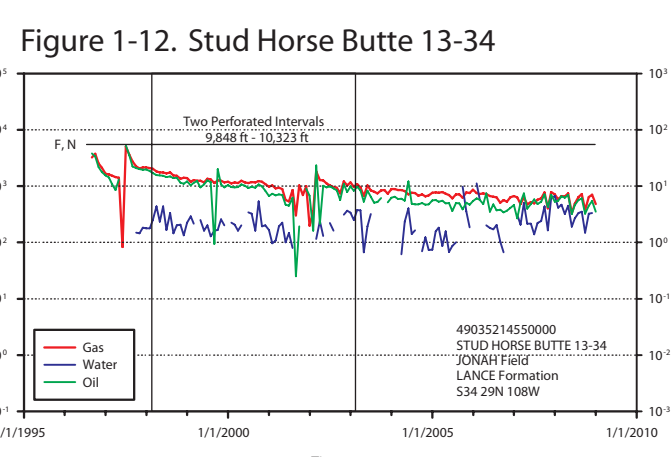
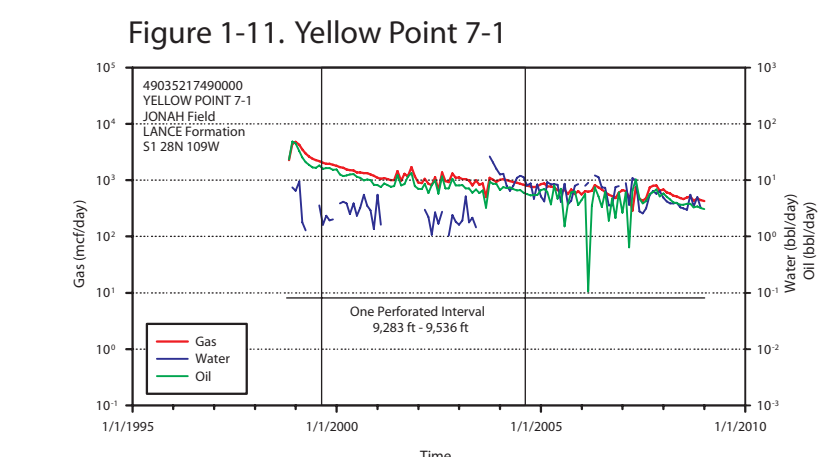
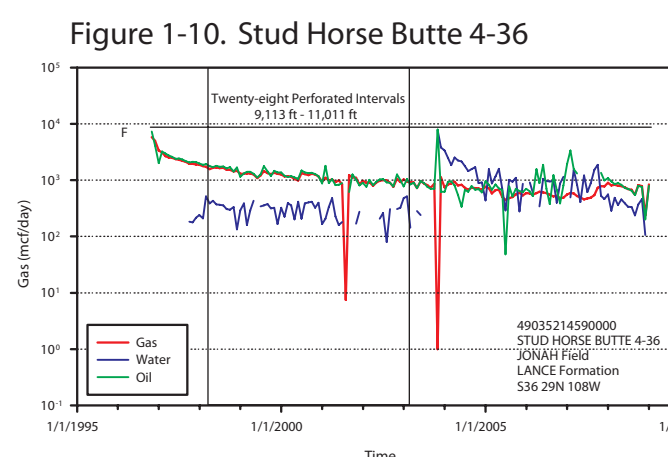
Locations of the 18 wells that were studied are shown in figure 1-1. Production plots for 18 wells are shown in figures 1-6 through 1-23, with wells grouped into intervals of estimated ultimate recovery of gas, corresponding to the map key. Gas, water, and oil daily production rates are computed at times indicated by the two vertical lines in the production plots. Gas and water production at the first sample time is summarized in figure 1-2; gas and oil production at the first sample time is summarized in figure 1-3. Changes in water and gas production over 5-year intervals are shown in figures 1-4 and 1-5. [mcf, thousand cubic feet; mmcf, million cubic feet; bcf, billion cubic feet; bbl, barrels; F, hydraulically fractured; N, nitrogen injected; G, gas injected]



#### Wells in areas with estimated ultimate gas recovery $\leq 5$ bcf



#### Wells in areas with estimated ultimate gas recovery between 5 bcf and 10 bcf



#### Wells in areas with estimated ultimate gas recovery $\geq 10$ bcf

