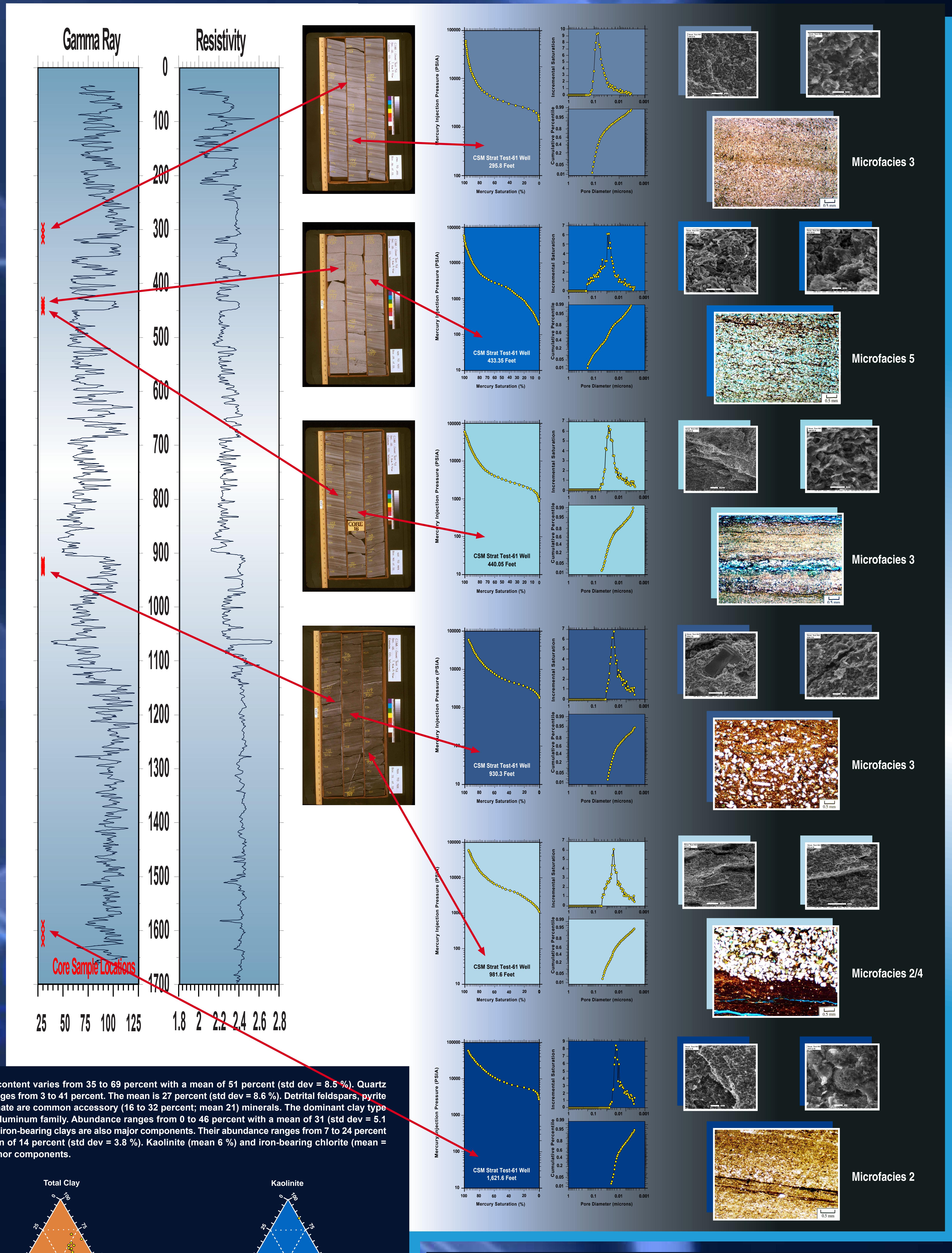
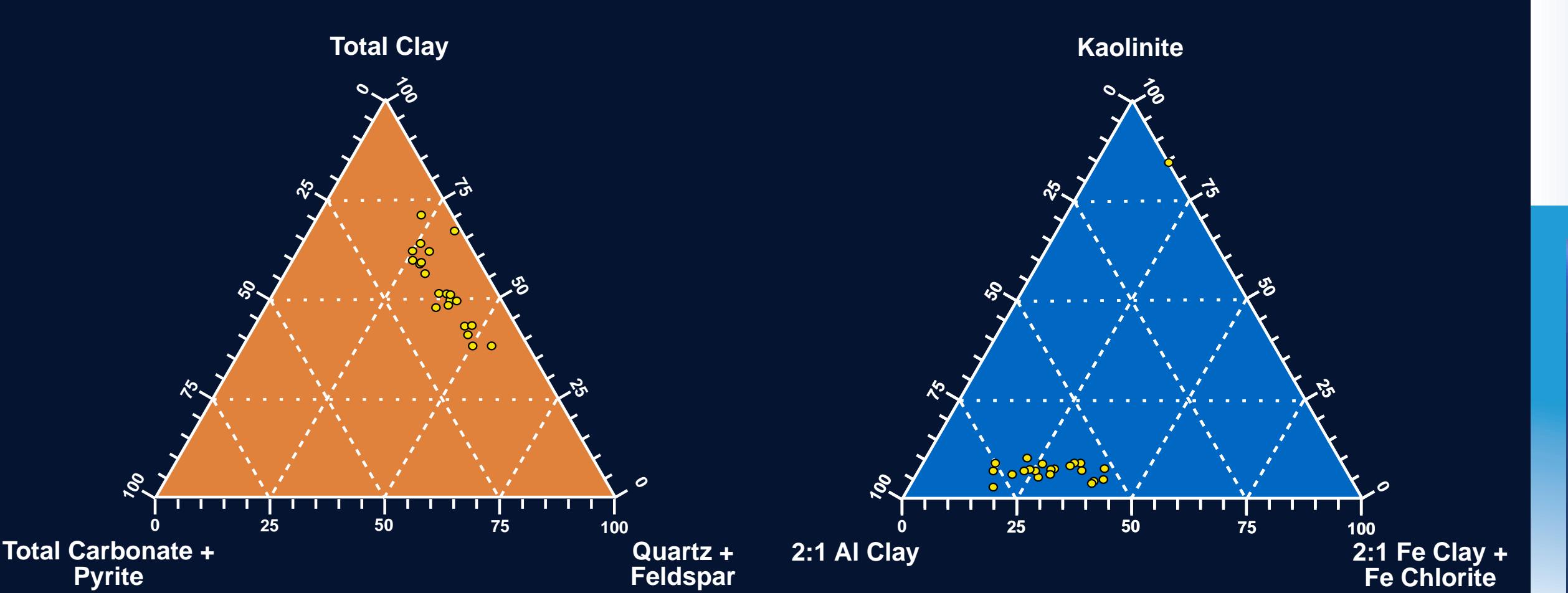


Behind Outcrop Core

Colorado School of Mines Stratigraphic Test 61
Section 25 T16N - R92W Carbon Co., Wyoming



Total clay content varies from 35 to 69 percent with a mean of 51 percent (std dev = 8.5 %). Quartz content ranges from 3 to 41 percent. The mean is 27 percent (std dev = 8.6 %). Detrital feldspars, pyrite and carbonate are common accessory (16 to 32 percent; mean 21) minerals. The dominant clay type is the 2:1 aluminum family. Abundance ranges from 0 to 46 percent with a mean of 31 (std dev = 5.1 %). The 2:1 iron-bearing clays are also major components. Their abundance ranges from 7 to 24 percent with a mean of 14 percent (std dev = 3.8 %). Kaolinite (mean 6 %) and iron-bearing chlorite (mean = 1%) are minor components.



Samples from the Colorado School of Mines Strat Test 61 represent the lowstand (LST) part of the Lewis Shale. These samples consist of very silty shales and argillaceous microporous siltstones that have relatively low MICP values (mean 2886 psia). These lower MICP values are typical of silt-rich shales wherein detrital silt- and fine sand-sized grains are concentrated into high-frequency laminae.