On the cap a new connector (e.g. Lemo) is necessary. We could use the old 6 big pins for the motor and a future furnace. Instead a new 10 pins Lemo could be placed in the center of the cap (6 pins could be used for the LVDTs and 4 for 2 Thermocouples placed in the samples)

LVDTs used to measure the shortening of the standard sample (Internal Force)

Standard elastic sample (e.g. Aluminum)

LVDTs used to measure the shortening of the rock sample (micro displacement)

Rock sample

Bottom piston without load cell (Dummy Load Cell)

Pore pressure pipe #2

Pore pressure pipe #1

O-ring seat

O-ring seat

Figure 5. First draft of the new att. Cell.