DISTORTION IN SAMPLES RECOVERED WITH THE
APOLLO CORE TUBES

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The Apollo 11, 12, 14 and 15 core tubes were tested in a layered
lunar soil simulant to assess the influence of tube geometry on the
quantity and quality of lunar sample recovery. It was found that the
Apollo 11 core tube samples were most distorted and that the Apollo 15
core tube samples were least disturbed. The depth in the core tube
samples has been related to the original depth in the lunar surface for
all the core tubes. These depth relationships can be used by the various
core tube sample investigators to interpret their test results. This
data is of particular relevance to those investigators seeking to
relate property change to depth in the lunar surface.