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COVER

Pumice from the volcanic tuff of Bed I, Olduvai Gorge. The specimen was mounted in plastic, polished, and etched. The three arrows indicate the location of spontaneous fission events. Each event appears as an elliptical pit. The age of the pumice, determined by counting such events, has been found to be 2 million years (about $\times 700$). See page 72.