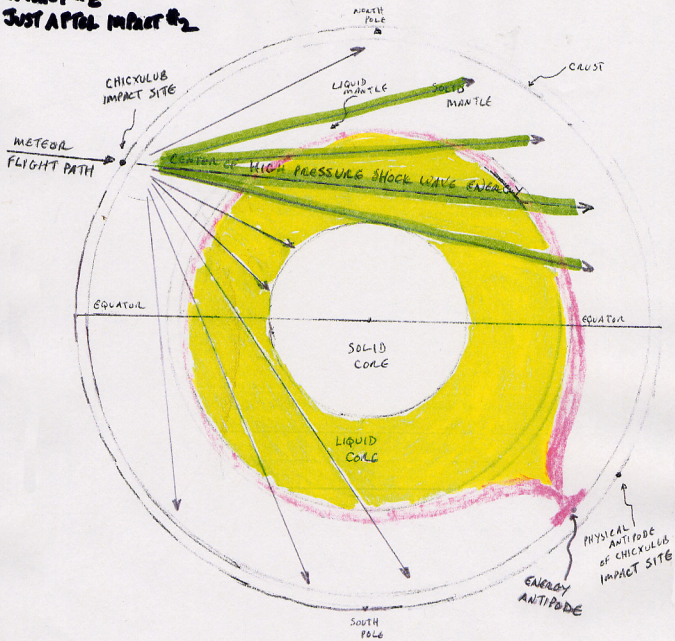


IMPACT # E JUST AFTER IMPACT # 2



IMPACT # E

In the next several hours after impact, the huge shear waves resonating through the mantle will cause the mantle material to lose its cohesion and move well beyond its Frictional Release Threshold (FRT). This means that the mantle, which would normally allow something to move through it at about one inch per year, would become permeable to material under high pressure.

The material under highest pressure would be the small liquid mantle layer next to the liquid core and the liquid core located at the energy antipode. This liquid material at the energy antipode would receive very high pressure from all sides. There would be extra pressure from the side with the main high pressure shock wave.

The result of this liquid rock under high pressure pressing against mantle material that is pushed beyond its FRT would be a vigorous mantle plume that would shoot up to the underside of the Earth's crust.