<u>Table 2</u>
PHYSICAL ENVIRONMENTAL CONDITIONS

Conditions	Engineering Applications (to depths of 9km)		Geologic-Geophysic Applications (to center of Earth)
Effective pressure	Static: Dynamic (shock):	$\leq 2 \text{ kb}^{(1)}$ $\leq 10,000 \text{ kb}^{(3)}$	≤ 3600 kb ⁽²⁾ ≤ 10,000 kb
Temperature	Static: Dynamic:	≤ 300°C ≤ 1500°C ⁽⁴⁾	≤ 3000°C ⁽²⁾ ≤ 1500°C ⁽⁴⁾
Strain rate	Static: Dynamic:	10 to $10^{-10}/\text{sec}$ 10^{10} to $10/\text{sec}$	10 to $10^{-16}/\text{sec}$ 10^{10} to $10/\text{sec}$
Differential stress	Static: Dynamic:	<pre></pre>	<pre> 2 kb(?) ? </pre>
Boundary conditions	Rigid to non-rigid to free air		

^{(1) 1} kilobar (kb) = 10^9 dyne/cm² = 987 atm = 14,500 lb/in.² = 1020 kg/cm²

⁽²⁾ Katz (1966)

⁽³⁾ Brode (1964)

⁽⁴⁾ Ahrens and Gregson (1964)