<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 <sup>(2)</sup> ≤ 10,000 kb
Temperature	Static: Dynamic:	≤ 300°C ≤ 1500°C <sup>(4)</sup>	≤ 3000°C <sup>(2)</sup> ≤ 1500°C <sup>(4)</sup>
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>     2 kb(?)     ? </pre>	≤ 2 kb(?) ?
Boundary conditions	1	Rigid to non-rigi	d to free air .

<sup>(1) 1</sup> kilobar (kb) =  $10^9$  dyne/cm<sup>2</sup> = 987 atm = 14,500 lb/in.<sup>2</sup> = 1020 kg/cm<sup>2</sup>

<sup>(2)</sup> Katz (1966)

<sup>(3)</sup> Brode (1964)

<sup>(4)</sup> Ahrens and Gregson (1964)