Page 126, equation (3.238)

From constitutive equation (3.194) we have in the component form:

$$(\mathrm{grad}P)^i = \frac{\partial P}{\partial x^i} = \frac{\partial \hat{P}}{\partial \rho}\frac{\partial \rho}{\partial x^i} + \frac{\partial \hat{P}}{\partial T}\frac{\partial T}{\partial x^i} \equiv \frac{\partial \hat{P}}{\partial \rho}h^i + \frac{\partial \hat{P}}{\partial T}g^i.$$

Thus

$$\mathrm{grad}P = \frac{\partial \hat{P}}{\partial \rho}\mathbf{h} + \frac{\partial \hat{P}}{\partial T}\mathbf{g} = \frac{\partial \hat{P}}{\partial \rho}\mathbf{h} \tag{1}$$

where (3.221) was used in the last equality. Combining (1) and (3.228), (3.238) follows.