

Fig. 4. P, T diagram for crystallization of andesite +10% by weight of water

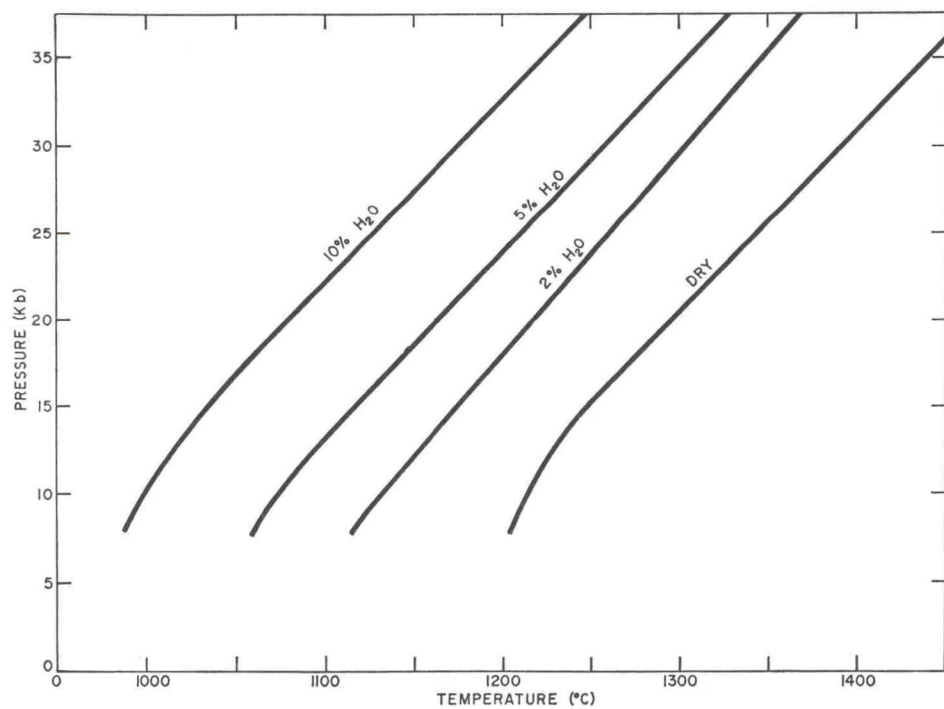


Fig. 5. P, T plot showing effect of addition of water on lowering the andesite liquidus

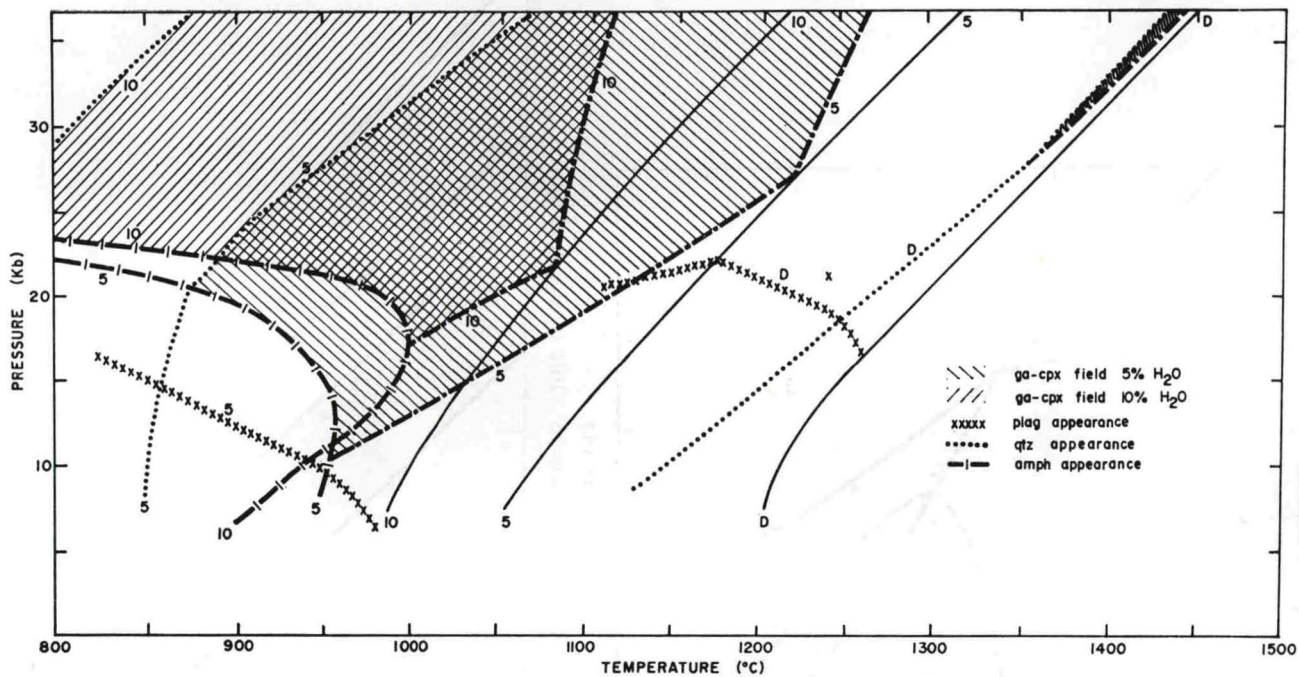


Fig. 6. Combined P, T plot for the anhydrous and hydrous runs showing effect of water on (a) enlargement of garnet-clinopyroxene crystallization field; (b) suppression of quartz, plagioclase appearance; (c) stability of amphibole. Note: numbers beside curves refer to water content applying to that particular stability curve

4. The depression of the appearance of quartz results in a significantly enlarged field of crystallization of garnet-clinopyroxene with increasing water content at pressures greater than 25 kb. This is clearly illustrated in Fig. 6.