

Fig.4. Variation in d_{001} of montmorillonite formed from palygorskite

a - montmorillonites obtained at $P_{H_2O} = 1400 \text{ kg/cm}^2$ and $400-600^\circ\text{C}$; b - same, saturated with glycerin; c - same heated for 2 hours at 600°C under atmospheric pressure. Crosses are experimental points

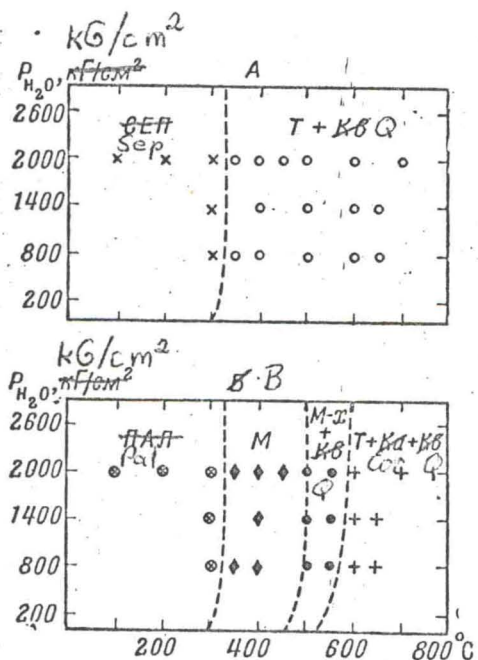


Fig.5. $P_{H_2O} - T$ diagrams of stability fields of sepiolite (A), palygorskite (B) and some phases formed from them
 Sep - sepiolite; T+Q - talc + quartz;
 Pal - palygorskite; M - montmorillonite;
 M-X - disordered mixed layer montmorillonite-chlorite phase + quartz; T+Cor+Q - talc + cordierite + quartz. Interrupted lines - preliminary phase boundaries