

#### 4.8 Multiple Well Systems

- individual and composite drawdown curves
- interfere → minimum
- space wells → drainage effects

#### 4.9 Partially Penetrating Wells

flow pattern → fully penetrating wells  
→ partially penetrating wells

Fig 4.8.1

$$S_p = S + \Delta S$$

$$\Delta S = \frac{Q_p}{2\pi T} \frac{1-P}{P} \ln \frac{(1-P)h_s}{r_w} \quad p = \frac{h_s}{b}$$

4.10 Well flow for special conditions : special aquifer,  
pumping and well  
conditions

Cases 1-10 p.198

See reference book also.