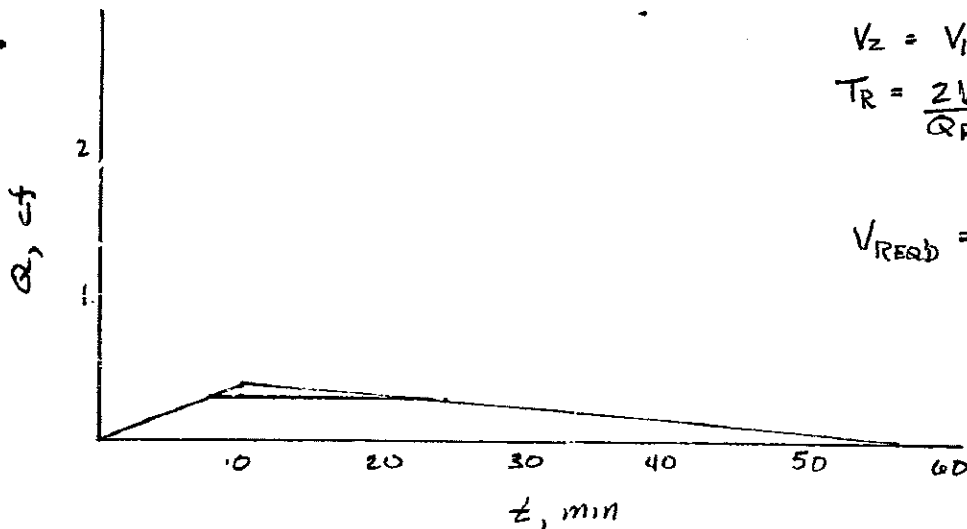


40621 HYDROGRAPH ANALYSIS 4-30-84 LPL

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HYDROLOGY SECTION



$$Q_p = Q_{100} = 0.40 \text{ cfs}$$

$$V_{100} = 673 \text{ cf}$$

$$V_1 = \frac{1}{2} (10)(60)(0.40) = 120 \text{ cf}$$

$$V_2 = V_{100} - V_1 = 673 - 120 = 553 \text{ cf}$$

$$T_R = \frac{2V_2}{Q_p} = \frac{(2)(553)}{0.40} = 2765 \text{ sec}$$

$$= 46 \text{ min}$$

$$V_{\text{REQD}} = \frac{1}{2} (15)(60)(0.40 - 0.30) = 45 \text{ cf}$$