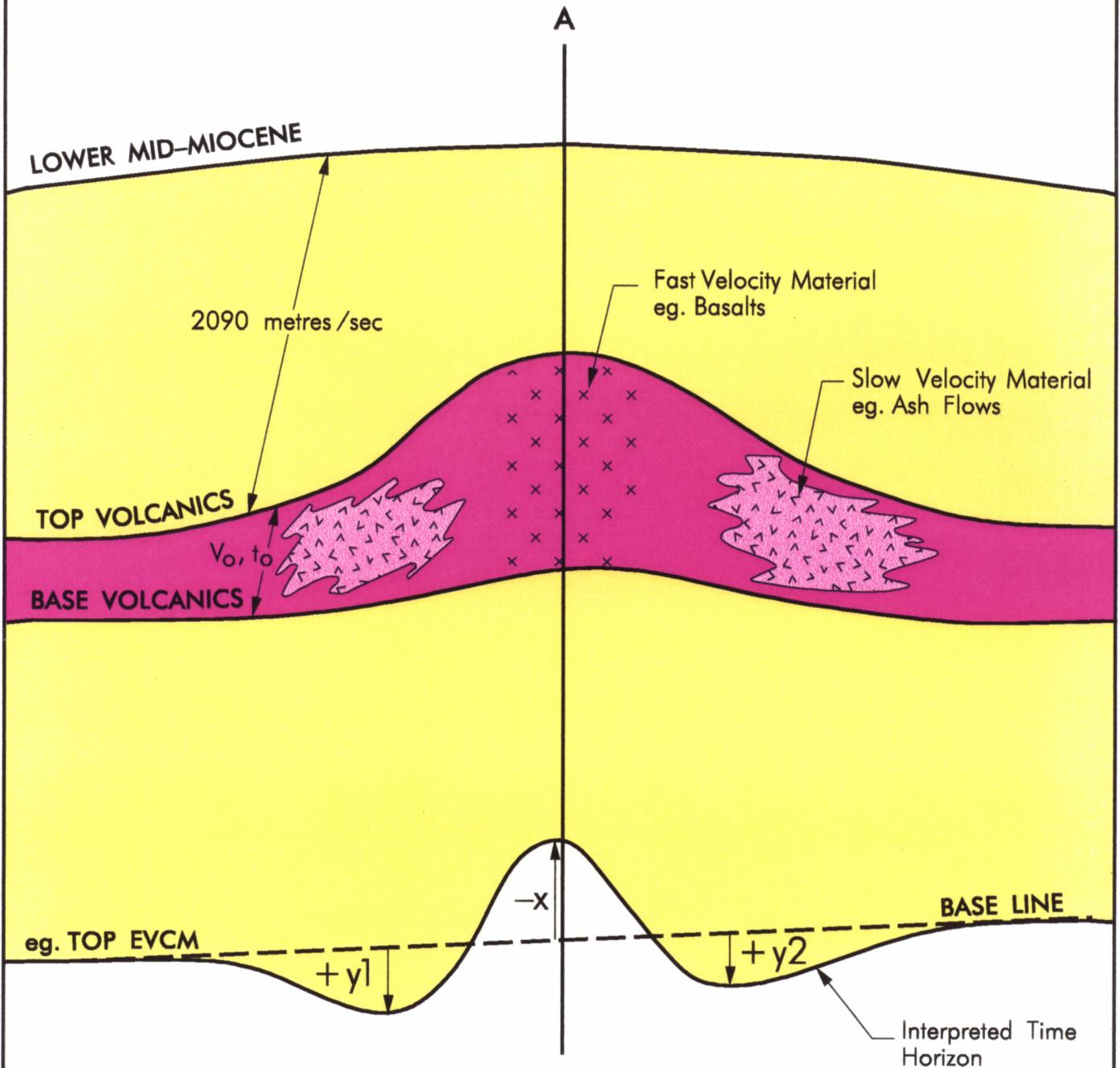


5 cm

CALCULATION OF VOLCANIC VELOCITY MODEL



x, y = Observed pull up or push down away from base line
 V_0, t_0 = Interval velocity and time thickness of volcanic pile

for example, at position A:

$$V_0 \times t_0 = 2090 (t_0 + x)$$

$$V_0 = 2090 (t_0 + x) / t_0$$

V_0 = the interval velocity required to cause the x millisecond pull up when compared to the surrounding medium velocity of 2090 m/sec, and interval thickness of t_0 milliseconds