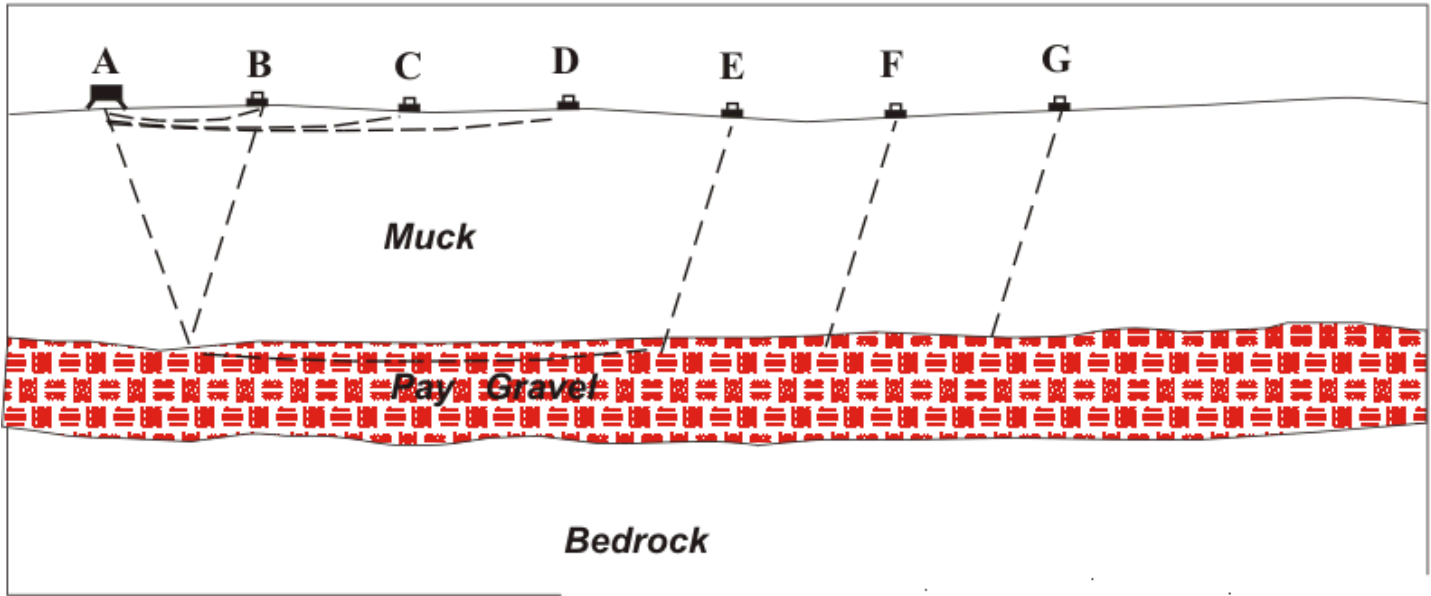


Answer Sheet AS21



Seismic Line A-A'		
Station	Distance (feet)	Travel Time (milliseconds)
B	20	20
C	30	30
D	40	40
E	50	48
F	60	50
G	70	53

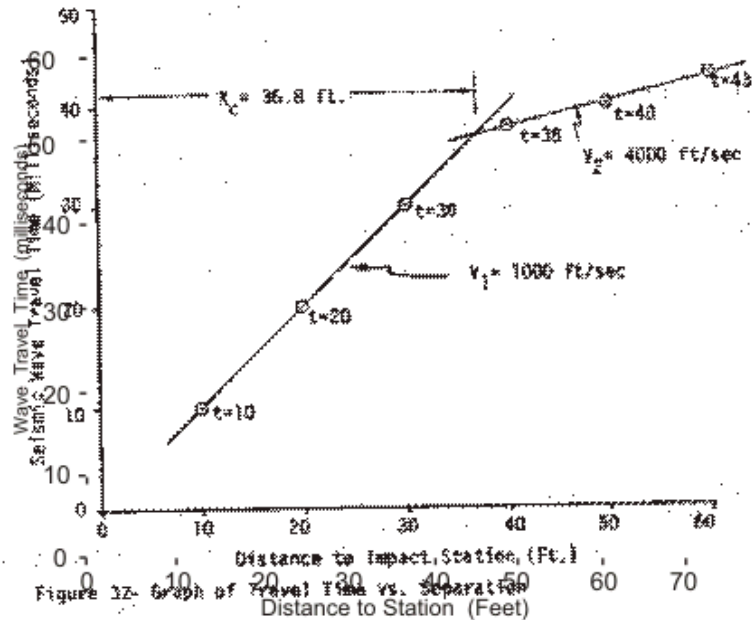


Figure 12. Graph of Travel Time vs. Separation

$$\text{Depth (d)} = \frac{X_c}{2} \sqrt{\frac{V_2 - V_1}{V_2 + V_1}}$$

$V_2 = 4000$  feet / second  
 $V_1 = 1000$  feet / second

$$\begin{aligned} \text{Depth (d)} &= \frac{36.8}{2} \sqrt{\frac{4000 - 1000}{4000 + 1000}} \\ &= \sqrt{\quad} \\ &= \quad \text{feet} \end{aligned}$$