64. The original amount of ^{238}U the rock contains is given by

$$m_0 = me^{\lambda t} = (3.70\,\text{mg})\, e^{(\ln 2)(260\times 10^6\,\text{y})/(4.47\times 10^9\,\text{y})} = 3.85\ \text{mg}\ .$$

Thus, the amount of lead produced is

$$m' = (m_0 - m)\left(\frac{m_{206}}{m_{238}}\right) = (3.85\,\text{mg} - 3.70\,\text{mg})\left(\frac{206}{238}\right) = 0.132\ \text{mg}\ .$$