

Average grade SnO₂:

$$\begin{aligned} (2) \quad & 4.200 \times 10^6 \times 0.00031 = \text{tonnes pure Sn} = 0.01302 \times 10^6 \\ (1) \ \& \ (3) \quad 23.94 \times 10^6 \times 0.00014 = \text{tonnes pure Sn} = \underline{0.03352 \times 10^6} \\ & \text{Total tonnes pure Sn} = 0.04654 \times 10^6 \end{aligned}$$

- by total tonnes gives overall grade = 0.165% Sn

Product Market Price

CaF₂ \$70.00 per tonne

SnO₂ \$3500.00 per tonne contained Sn

Project Life

19 years at mining rate of 1.5×10^6 tonnes per year plus three years development.

Mill days per year.

300

Mill Recovery

CaF₂ 70%

SnO₂ 70% (Renison obtain 80% recovery of fine tin)

Concentrate Grade

CaF₂ 97%

SnO₂ 60% Sn

Concentrate Moisture

10%

Concentrate Freight

47 km mine to Devonport wharf at 8¢ per km = \$3.76 per t
handling at wharf = \$0.30 per t

Total: \$4.06 per t

Royalty

At present royalties are charged on quarry materials and iron ore only. However allowance is made in case a royalty is included at a later date. Assume \$0.50 per tonne fluorite produced.

Ore Mining Costs

For 5000 tonnes of ore per day = \$1.00 per tonne