

However, a complete review of all metallurgical testing at Moina by R.J. Purvis, Mineral Processing Engineer, Shell, gave the following conclusions:

- 1) Wrigglite mineralization located at Moina is not economic due to the low grade and extreme metallurgical problems which exist.
- 2) For further discoveries of mineralization to be economic grades of all components, but Sn and W in particular, would need to be considerably higher. At the same time reduced liberation problems would be a necessary condition to enable economic extraction of values.
- 3) If such mineralization was located techniques do exist for extraction values by either mineral processing or chemical techniques.
- 4) Tin and tungsten are considered to be the main target metals and fluorite could be a significant by product.
- 5) Previous test work by the Mines Dept. on the recovery of cassiterite and scheelite in wrigglite were unfortunately unsuccessful, as was test work by Amdel.
- 6) The work reported in the final Mines Dept. report (A782) confirms the difficulties previously indicated in treatment of this ore by conventional techniques. A marketable grade of fluorite (70% CaF_2) could not be achieved and recovery level is very low.

At the present time the Moina ore, including the stock feldspar - scheelite mineralization, is too low grade and metallurgically difficult to be of economic interest.