

## SECONDARY MINERALS IN Fe-Mn GLAEBULES

### SUMMARY

Iron, iron-manganese and manganese glaebules were studied to evaluate the type of iron or manganese minerals present. SEM micrographs of the following are included:

haematite, goethite, amorphous iron oxyhydrate.

Lithiophorite, insutite, birnessite, feitknechtite.

and amorphous manganese oxide.

With respect to goethite, two crystal habits are shown and it is indicated that many minerals may show more than one habit.

Many of these minerals may not be identified in thin sections and so ancillary techniques such as SEM and XRD are needed to indicate their presence.