

SOME ASPECTS OF THE HYDROGEOLOGY OF PEAT IN PENIBONG, PULAU BRUIT, SARAWAK

YOGESWARAN MAILVAGANAM
Geological Survey Malaysia
Kuching, Sarawak

A study is in progress to determine the viability of exploiting peat *per se* as a water resource. This is being investigated at Penibong, Pulau Bruit, Sarawak.

The peat, which is in varying stages of humification, is a varied mixture of wood, roots, leaves, fibres and amorphous materials; its thickness averages 3.25 m. It is almost fully saturated with moderate to good quality water. Test production-wells of various designs have been constructed in the peat with the following aims: to determine the most optimum design for exploiting the water from peat, to study its behaviour due to this exploitation and also to determine its hydraulic characteristics. In this paper, only the determination of the hydraulic conductivity of peat is elaborated, together with a discussion on the interpretation of the pumping tests data.