

Gravity surveys for tin bearing geological structures in the Pusing Area, Perak - Some preliminary results: Loke Meng Heng, School of Physics, Universiti Sains Malaysia, Penang; Ho Choon Heng, Geological Survey Malaysia, Perak and Lee Chong Yan, School of Physics, Universiti Sains Malaysia, Penang.

The gravity surveys were carried out at two different areas near Pusing, Perak. In the first area, there was formerly a tin mine extracting tin bearing alluvium from an extremely large pothole in the limestone bedrock. This area is about 0.5 mile south of Pusing town. The purpose of this gravity survey was to determine whether there were other large potholes in this area. In this survey, two minor gravity anomalies of about -0.2 and -0.3 mgals respectively were obtained which could be due to depressions in the limestone bedrock.

The second area is located about 0.5 mile to the south of the first area. The purpose of this gravity survey is to determine the size and shape of an elongated sandstone body apparently surrounded by

limestone. From an outcrop at a tin mine, it has been found that primary tin mineralization is associated with this sandstone body. Two gravity traverses running approximately perpendicular to the strike of this body were carried out. The first traverse which cuts across the central portion of the sandstone body shows a prominent gravity minimum of about -1 mgal over it. A preliminary gravity model shows that the width and thickness of the body is about 150 and 170 metres respectively. The second traverse which is located near the southern end of the sandstone body shows a less distinct gravity minimum of about -0.6 mgal over it. Both profiles show a larger gravity minimum of about -4 mgals to the west of the sandstone body. It could be due to another larger, subcropping sandstone body located to the west of the present one.
