

ABSTRACT

Administratively, research area located at surrounding Borobudur district, Magelang, East Java Province. Total of research area approximately 5x5 km UTM WGS 1984 with coordinate $110^{\circ} 09' 57.1856''$ - $110^{\circ} 12' 40.6691''$ BT dan $7^{\circ} 35' 54.5878''$ - $7^{\circ} 38' 37.7000''$ LS with 1:25.000 scale. Analysis of slope stability in the research area consisted of Tigalereng contained in daerah satu in Giripurno area, one in the area and one in the area Majaksingi Giritengah. Pada Lereng 1 in the area Giripurno showed an unstable slope conditions with FK 0,912. Pada lereng 2 value in the area Majaksingi showed unstable slope conditions with the value of FK 0,785. Pada lereng 3 in the area Giritengah showed an unstable slope conditions with FK values 0,813. Dengan three slopes were unstable state dan landslides cloud, it can be made a calculation to find the value of a secure manner FK attenuate slope on the slopes and with recommending so that the slope or in pairs using engineering tools such as the creation Geotek retaining walls, and others. Stratigraphy study area was divided into three lithologies unofficial. The sequence of the young to the elderly as follows: Units Andesite OAF (Oligocene), Unit breksi Kebobutak (Pliocene), Unit Endapan Aluvial (Holocene).