GEOLOGI DAN KONTROL BATUAN DASAR TERHADAP KARAKTERISTIK NIKEL LATERIT PADA DAERAH TAPUNOPAKA, KEC. LASOLO, KAB.KONAWE UTARA, PROVINSI SULAWESI TENGGARA

ABSTRACT

Oleh:

ANDRE PRASETYA RUFANI

111.190.108

The research area is within the IUP of PT. Antam TBK North Konawe Nickel Mining Business Unit, which is administratively located in Tapunopaka Village, District. Lasolo Islands, North Konawe Regency, Southeast Sulawesi Province. The research area consists of 14 Hazburgite research locations and 35 Websterite research locations. The geomorphological unit in the research area is an anthropogenic plain in the form of a pit. There is a structure in the form of 2 joints in the research area with a general direction of shear joint N164/65oE and shear joint N98/20oE. The results of the stereographic analysis show that the extension joint is N116/46oE and the release joint is N251/34oE and the main stresses that work are relatively in the southwest - northeast direction and the general direction of the shear joint is N285/10oE and the shear joint is N350/70oE. The results of the stereographic analysis show that the extension joint is N342/38oE and the release joint is N180/53oE and the main stress that works is relatively in the Northeast - Southwest direction. The stratigraphy of the research area consists of the Hazburgite and Websterite lithological units. The research aims to determine the geology and control of bedrock on the characteristics of nickel laterite. Analysis of chemical element levels is obtained from XRF (X-Ray Fluorescence) results. The characteristics of the research area show that the Saprolite Zone in the Hazburgite lithology has better Ni element content characteristics compared to the Websterite lithology.

***Keywords** : hazburgite, Ni element content, characteristics, websterite*