Identifikasi endapan nikel laterit di Pulau Maniang, Kabupaten Kolaka, Provinsi Sulawesi Tenggara menggunakan metode tahanan jenis dan polarisasi terimbas = Identification nickel laterite deposit in Maniang Island, Kolaka Regency, Southeast Sulawesi Province using resistivity and induced polarization method.

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Abstrak

Penelitian menggunakan metode tahanan jenis dan polarisasi terimbas di Pulau Maniang, Kabupaten Kolaka, Provinsi Sulawesi Tenggara untuk mengidentifikasi lingkungan laterisasi nikel laterit dengan konfigurasi elektroda Wenner-Schlumberger. Terdapat lima lintasan pengukuran dengan arah lintasan Barat Laut - Tenggara dan panjang lintasan 235 meter. Lingkungan laterisasi nikel laterit di Pulau Maniang terbagi menjadi 3, yaitu batuan penutup, lapisan limonit, dan lapisan saprolit dengan nilai tahanan jenis berturut-turut sebesar > 150 Ohm.m, < 200 Ohm.m, dan > 200 Ohm.m. Faktor yang mempengaruhi pembentukan endapan nikel laterit di Pulau Maniang adalah topografi dan vegetasi. Persebaran endapan nikel laterit di Pulau Maniang berarah ke timur.

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Study is carried out using resistivity and induced polarization method in Maniang Island, Kolaka Regency, Southeast Sulawesi to identify the laterization environment for nickel laterite by performing the Wenner-Schlumberger configuration. Five lines, trending Northwest - Southeast, are obtained on the length of 235 meters each. The laterization environment for nickel laterite on Maniang Island is divided into 3 layers: caprock, limonite and saprolite layers with chronological values ofÃÂ > 150 Ohm.m, < 200 Ohm.m, and > 200 Ohm.m. Topography and vegetation make up the factors influencing the formation of nickel laterite deposits in Maniang Island. The distribution of nickel laterite deposits on Maniang Island is trending eastward.