

ABSTRACT

IDENTIFICATION OF MINERAL METAL ZONE USE INDUCED POLARIZATION (IP) IN MEKARJAYA, CIDOLOG, SUKABUMI WEST JAVA

by :

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115.070.006

Investigation has been done in the area of metal mineral zones Mekarjaya, District Cidolog, Sukabumi, West Java. The investigation was conducted by using Time Domain Induced Polarization geoelectric (TDIP) method Dipole-dipole configuration with the objective to determine the existence of metallic minerals, in the subsurface resistivity and chargeability values based on the rock. TDIP data retrieval done at thirteen tracks, electrode spacing 5 m and the path length 155 m and 235 m.

The results of advanced data processing TDIP is true 2D resistivity and chargeability of each path. From the data resistivity, argillic alteration zones have low resistivity values between $<50 \Omega\text{m} - 100 \Omega\text{m}$, propylitic alteration zones have high resistivity value of $100 \Omega\text{m} - 200 \Omega\text{m}$ and silicified zones have a value indication resistivity $> 200 \Omega\text{m}$. Chargeability data and the existence of metallic minerals that are in the zone of high ($> 100 \text{ msec}$). Based on the interpretation of 2D spread trending southwest-northeast of the study area.

Keywords: *Geoelectric, Time Domain of Induced Polarization (TDIP), resistivity, Chargeability, metallic minerals.*

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