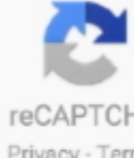


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3d Resistivity Inversion Software Engineering

g. the shape of salt bodies, basal thickness, basement depth and geometry) Mining and geothermal uses of resistivity are for localizing potential targets of ore bodies and geothermal reservoirs, respectively. e. forward modeling). The resistivity distribution can be used as a direct indicator of the presence of hydrocarbons or for delineation of structural features and lithological changes at a basin or regional scale (e. KMS Technologies has access to a variety of in-house and external 3D electromagnetic tools that are used for feasibility studies. CSEM and MT synthetic responses of the subsurface can be computed starting from the resistivity distribution (i. 3-D EM Modeling and Inversion 3-D CSEM™ modeling 3-D CSEM modeling and inversion 3-D MT modeling and inversion. Omega 3D Electromagnetic Modeling is used to infer the anisotropic resistivity distribution of the subsurface through 3D inversion of controlled-source electromagnetic (CSEM) and magnetotelluric (MT) data. Knowledge of the electrical resistivity of the subsurface has a wide range of applications in the oil and gas, mining, and geothermal industries.

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