عنوانمقاله:
2-D resistivity tomography for groundwater exploration in a basement complex of part of ago-iwoye, southwestern nigeria

محلانتشار:
اولین کنفرانس بین المللی مدیریت منابع آب (سال:1388)
تعداد صفحات اصل مقاله: 9 صفحه

نویستندگان:
Adetayo Femi folorunso - Department of Earth Sciences, Olabisi Onabanjo University, Ago-Iwoye
elija a ayolabi - Geophysic Program, Department of Physics, University of Lagos
stephen olalere ariyo - Department of Earth Sciences, Olabisi Onabanjo University, Ago-Iwoye

خلاصه مقاله:
Groundwater search in a basement complex rock using 2-D resistivity imaging survey with Wenner Electrode configuration was carried out in Olabisi Onabanjo University, Main Campus, a suburb of Ago-Iwoye. The results show 2-3 layers which signify different lithological units encountered as resistivity values were converted into geologically reasonable picture. 2-D resistivity image interpretation indicates low inverted resistivity values sandwich between two high values which is an indication of bedrock depression. Combined interpretation of the 2-D joined with geologic features and topography of the site reveal that the study area can be divided into three hydrogeological sequences; the topsoil variously composed of lateritic soil and sand/sandy clay, followed by highly weathered/fractured rock sequence and deep-seated hard and compact fresh rock section. A deep-drilled tube well site is recommended based on traverse 2 at surface position 57 m and up to a depth of 9.0 m±1.0 m because the water flow from the crest to the synclinal water accumulation zone (depression) which serves as groundwater collection center.

کلمات کلیدی:
Bedrock, Depression, Fracture, Groundwater

لینک نتیجه ثبت مقاله در بایگاه سوئیلیکا:
https://www.civilica.com/Paper-ICWR01-ICWR01_035.html

این صفحه به میثاق نایبی به نامه سازی مقاله در بایگاه استادی سوئیلیکا می‌باشد. در هر لحظه به متور تایید اصلا، این گواهی می‌توانند وضعیت ثبت مقاله را از طریق لینک فوق به صورت آنلاین کنترل نمایند.