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Identification of geothermal characteristics of the oligocene reservoir in Sahel Tunisia

B. Chelli

Institut national de recherche scientifique et technique, 95-2050, bchoulli@yahoo.fr, Fax. 00216 71 430 934

Water and energy are basic elements of any development plans mainly for the emerging economic countries such as Tunisia. Studies of the geothermal features of any regions are manly aimed to give a response for both aspects and to help better assessment of local reservoirs. Thanks to relatively important numbers of petroleum exploration wells drilled in central eastern Tunisia and the lack of accurate knowledge about the local deep water reservoirs, we undertook the work to study the underground temperature variations, the regional geothermal gradient behavior and main characteristics of the Oligocene reservoir considered as a promising one either for oil or for hot waters. Well drilling reports provided very useful information about the location, lithology, hydrodynamic parameters, water quality, pressure and underground temperature. Geologic and geophysics studies intensively undertaken by several companies during the last years, gave assistant and the architecture and limits of the local basin. All this data will be treated to characterize the Oligocene formation and to well identify its main parameters as potential aquifer and a geothermal play.