Heat Production of Radioactive 238U 232Th and 40K in Thung Nui Hot Spring Rocks Area, Satun Province Southern of Thailand

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The heat generation from the radioactivity of 238U 232Th and 40K of rocks in Thung Nui hot spring, Satun Province Southern of Thailand were study. The results of this research were used the develop of hot spring for ability renewable energy. The rocks sampling were collected outcrop nearly hot reservoir area. After sample grinded the radioactivity value of 226Ra 232Th and 40K were measured by gamma spectrometer. It was found that the radioactivity value of 226Ra 232Th and 40K in granite Triassic age and limestone Ordovician age rocks were 0.85 ppm 0.85 ppm and 0.18 % and 0.12 ppm 0.15 ppm and 0.04%, respectively. In addition, Heat Energy from Radioactive Isotope content; of 238U 232Th and 40K, in granite and limestone rocks around Thung Nui Hot spring was 4.95 μ W/m3 and 0.78 μ W/m3, respectively.

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