

Yanqing geothermal field, including the geological structure, geothermal flow, and the recharge source, age, heat storage temperature and circulation depth of geothermal fluid.

Results: The heat flux of Yanqing geothermal field is 75.6 mW/m². Isotopic data indicates that geothermal water is recharged from the northern mountains of Yanqing by precipitation. Three thermal reservoirs field yield different geothermal water ages and circulation depth. Ages of geothermal fluid in the Yanshanian granite, Cretaceous sandstone and Jixian dolostone geothermal reservoir are 15~21 ka, 28 ka and 48 ka, respectively. The circulation depth of geothermal water is ~2500 m in the granite and Cretaceous sandstone reservoir, but ranges from 2900 m to 3600 m in the Jixian dolostone. As the major reservoir in the Yanqing geothermal field, the ground temperature of thermal reservoir in dolostone varies between 80.5~98.3 °C with an average temperature at 90.6 °C.

Conclusions: The Yanqing geothermal field is a non-volcanic geothermal system heated by normal geothermal heat flow. Water is recharged from the northern mountains of Yanqing with different thermal water ages, and then circulated at variable depths.

Keywords: Yanqing geothermal field; genetic model; geothermal heat; fluid isotope

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