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Geophysical investigation using gravity data in Kinigi geothermal field, northwest Rwanda

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Highlights

- Gravity lineaments are extracted and interpreted to be the density boundaries.
- The interpreted faults are mainly oriented in NW-SE trend.
- The estimated fault from 3-D simulation is located near the two fault lines that were estimated by horizontal gradient.
- Mubona, Mpenge and Cyabararika surface springs are structurally controlled while Rubindi spring is not.
- The agreement in the results shows the reliability of the interpreted faults.