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Pembaruan model konseptual sistem panas bumi Gunung Tampomas, Sumedang, Jawa Barat = Updating geothermal system conceptual model of Mountain Tampomas Area, Sumedang, West Java

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Abstrak

Sistem panas bumi Gunung Tampomas merupakan sistem panas bumi relief tinggi dengan intermediate enthalpy. Data manifestasi air, geologi, dan geofisika didapatkan untuk mengetahui kondisi sebuah sistem panas bumi. Integrasi data dilakukan untuk menghasilkan persebaran litologi, analisis struktur, tipe air manifestasi, asal air manifestasi, zona upflow, outflow, suhu reservoir, fluid path way, dan lokasi sumber panas, reservoir, dan batuan penudung. Daerah Manifestasi Gunung Tampomas memiliki 2 litologi yaitu breksi gunungapi dan andesit, tipe air bikarbonat dengan asal air berupa air meteorik. Zona upflow pada Gunung Tampomas berada pada titik sampel CS dan CC, dengan zona outflow menuju arah utara manifestasi. Suhu reservoir sistem panas bumi ini berkisar 170±10°C. Hasil akhir dari studi ini berupa sebuah model konseptual sistem panas bumi Gunung Tampomas.

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The Mount Tampomas geothermal system is a high relief geothermal system with intermediate enthalpy. Water manifestation data, geology, and geophysics are obtained to determine the condition of a geothermal system. Data integration is carried out to produce lithology distribution, structural analysis, type of manifestation water, origin of manifestation water, upflow and outflow zones, reservoir temperature, fluid path way, and location of heat sources, reservoirs and caprock. The Manifestation Area of Mount Tampomas has 2 lithologies, namely volcanic breccia and andesite, has bicarbonate water type with meteoric water as its origin. The upflow zone on Mount Tampomas is at the CS and CC sample points, with the outflow zone towards the north of the manifestation. The reservoir temperature for this geothermal system ranges from 170±10°C. The final result of this study is a conceptual model of the Mount Tampomas geothermal system.