CLAIMS

1. A multi-well geothermal syphoning system, comprising two injection wells and at least two production wells,

the two injection wells each having an inlet valve for controlling a volume of a fluid medium entering the system and the at least two production wells each having an outlet valve for controlling the volume of the fluid medium exiting the system,

each of the wells having a well bore extending downwardly from a ground surface to define a plurality of substantially vertical bore sections, a first well bore comprising a first vertical bore section turning through 90 degrees and extending parallel to the ground surface to thereby define a horizontal bore section, the first well bore intersecting with the vertical bore sections of each of the remaining wells to fluidly interconnect each well of the system such that the fluid medium at a first temperature is introduced into the two injection wells and the fluid medium at a second temperature is drawn from the at least two production wells,

wherein each inlet valve and each outlet valve is adjustable to vary a flow volume of the fluid medium between the two injection wells and the at least two production wells to thereby control a temperature of the fluid medium at the second temperature drawn from the at least two production wells.

2. The system of claim 1, wherein the first well bore includes an elbow transitioning the direction of fluid medium flow through 90 degrees between the first vertical bore section and the horizontal bore section.

3. The system of claim 1 or claim 2, wherein the volume of fluid medium entering the two injection wells is substantially equal to the volume of fluid medium exiting the at least two production wells.

4. The system of any one of claims 1-3, wherein the second temperature is greater than the first temperature.

5. The system of any one of claims 1-4, wherein the first temperature is about 60°C-70°C.

6. The system of any one of claims 1-5, wherein the second temperature is about 250ºC-300ºC.

7. The system of any one of claims 1-6, wherein the volume of fluid medium entering the two injection wells is about 20kg to 120kg/second.

8. The system of any one of claims 1-7, wherein each well is spaced about 50 metres from any adjacent well.

9. The system of any one of claims 1-7, wherein each well is spaced about 100 metres from any adjacent well.

10. The system of any one of claims 1-9, wherein at least one of the vertical bore sections comprises a sump for collecting and trapping particulate matter within the system.

11. The system of any one of claims 1-10, wherein the vertical bore sections of each well extend downwardly from the ground surface by 5,000 metres to 12,000 metres.

12. The system of any one of claims 1-11, wherein the horizontal bore section is surrounded by geology at temperatures between 400ºC-700ºC.

13. The system of any one of claims 1-12, wherein the inlet valve is an inlet flow control valve.

14. The system of any one of claims 1-13, wherein the outlet valve is an outlet flow control valve.

15. The system of any one of claims 1-14, wherein the fluid medium is water or distilled water.

16. The system of any one of claims 1-15, wherein the fluid medium is selected from: a gas; compressed air; carbon dioxide (CO2); petroleum; and an oil medium.