

Graphics and TOUGH2

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The authors have developed a graphical tool to help with the preparation of TOUGH2 input files and the interpretation of TOUGH2 results. It runs on PCs (Windows 95 and NT) and unix workstations.

The tool is mulgraph and it is used to create TOUGH2 input and analyse TOUGH2 results. mulgraph requires a geometry file which describes the locations of the blocks in space. The geometry file is relatively simple and can be created with a text editor.

In order to analyse results, mulgraph needs to be able to read TOUGH2 listing files. In order to make this easier a new version of TOUGH2, autough2 has been created. autough2 has a standardized OUT subroutine and a new FORTRAN module, table.f, which is shared with mulgraph. table.f describes the element, connection and generation tables.

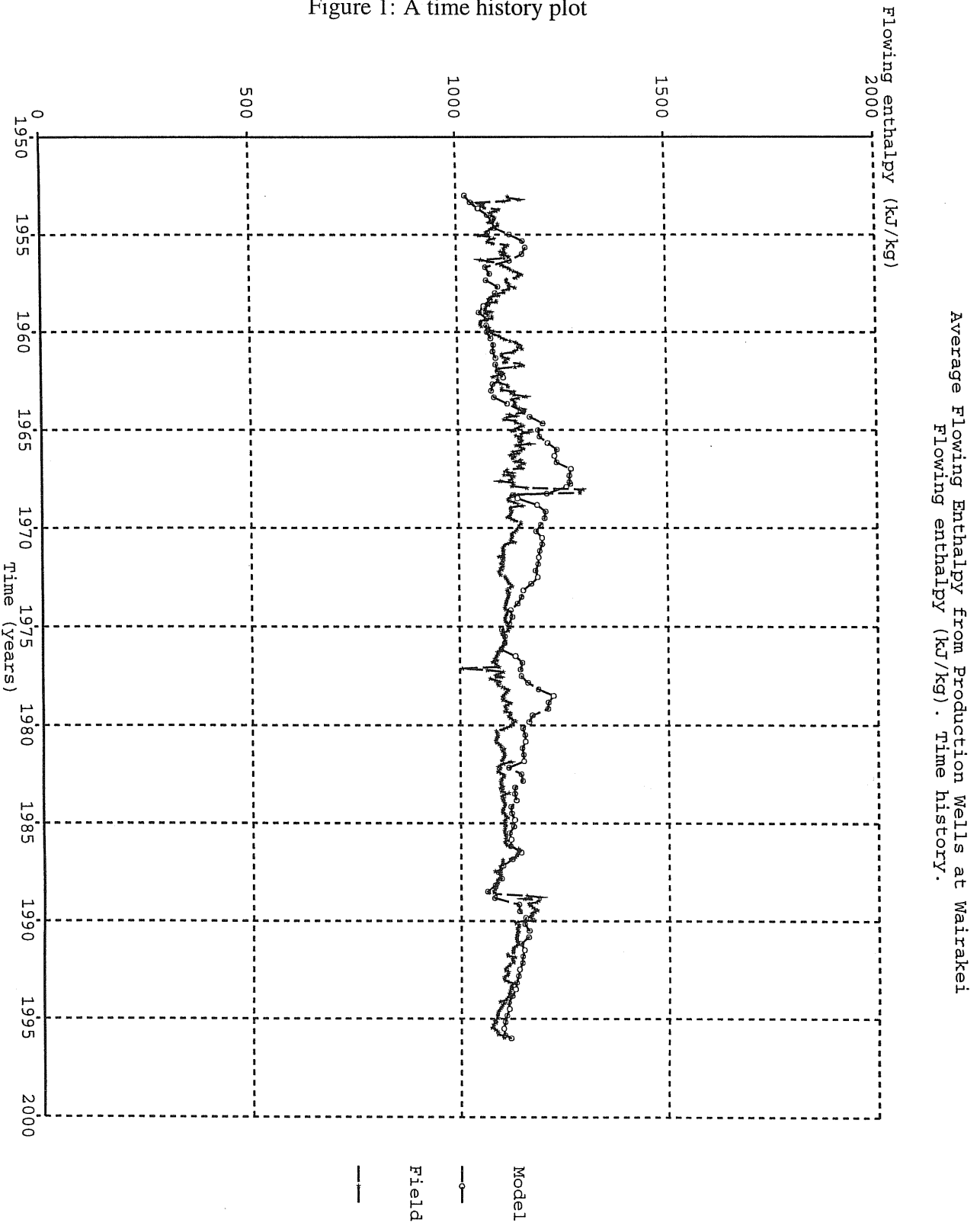
At the poster session, mulgraph and autough2 will be demonstrated. The executables are freely available. Please bring floppy discs if you want copies.

Following are examples of the output produced by mulgraph. The examples come from the 1417 block model of Wairakei described in [1].

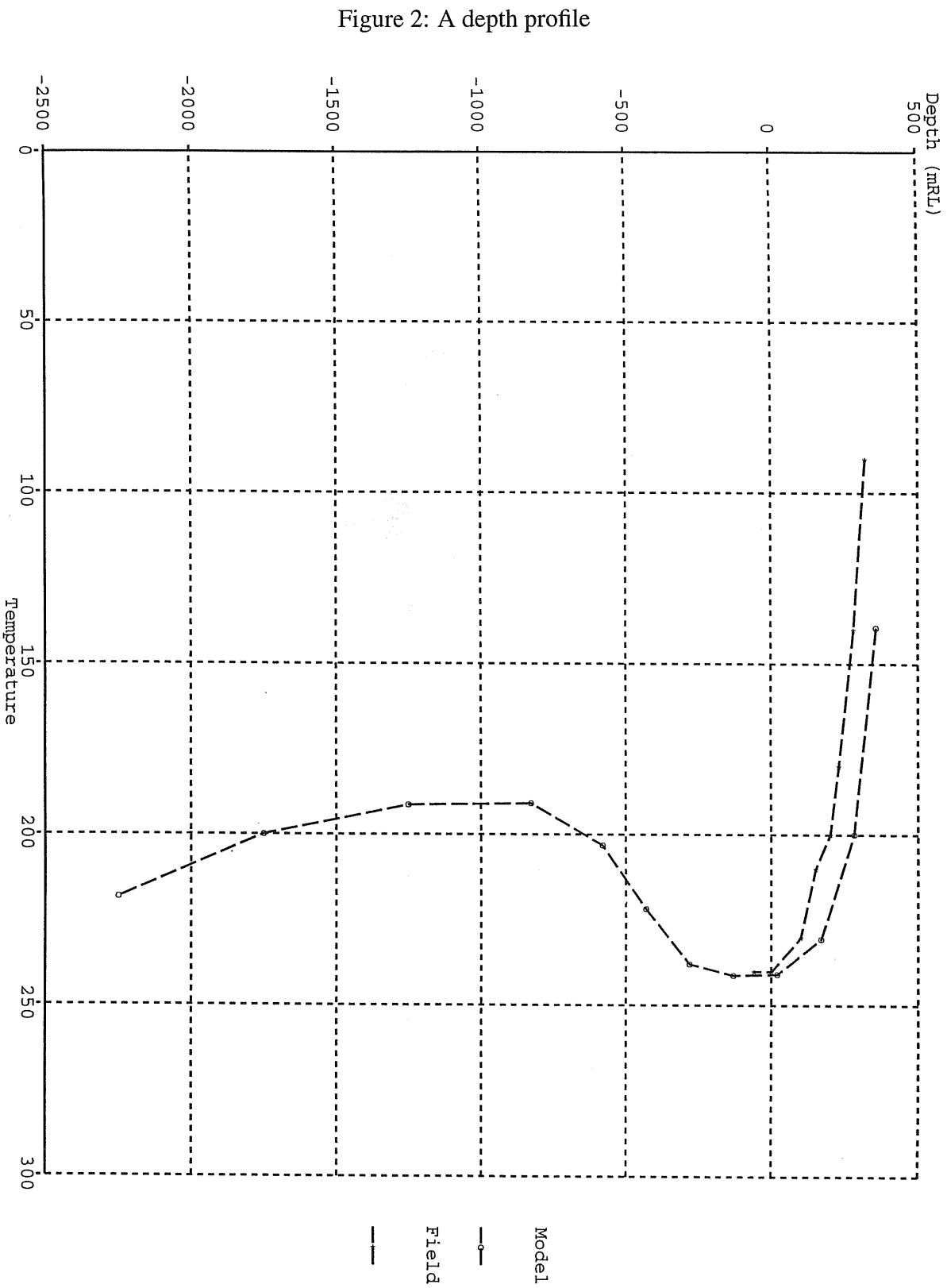
References

- [1] M.J. O'Sullivan, D.P. Bullivant, S. Follows, and W. Mannington. Modelling of the wairakei geothermal field. TOUGH Workshop '98.

Figure 1: A time history plot



Temperature vs Depth for Column 25 of Wail1417ns_043.*
Temperature. Depth plot.



Shallow Steam Zone at Wairakei
 Vapour saturation. Time (Years) is 1991.

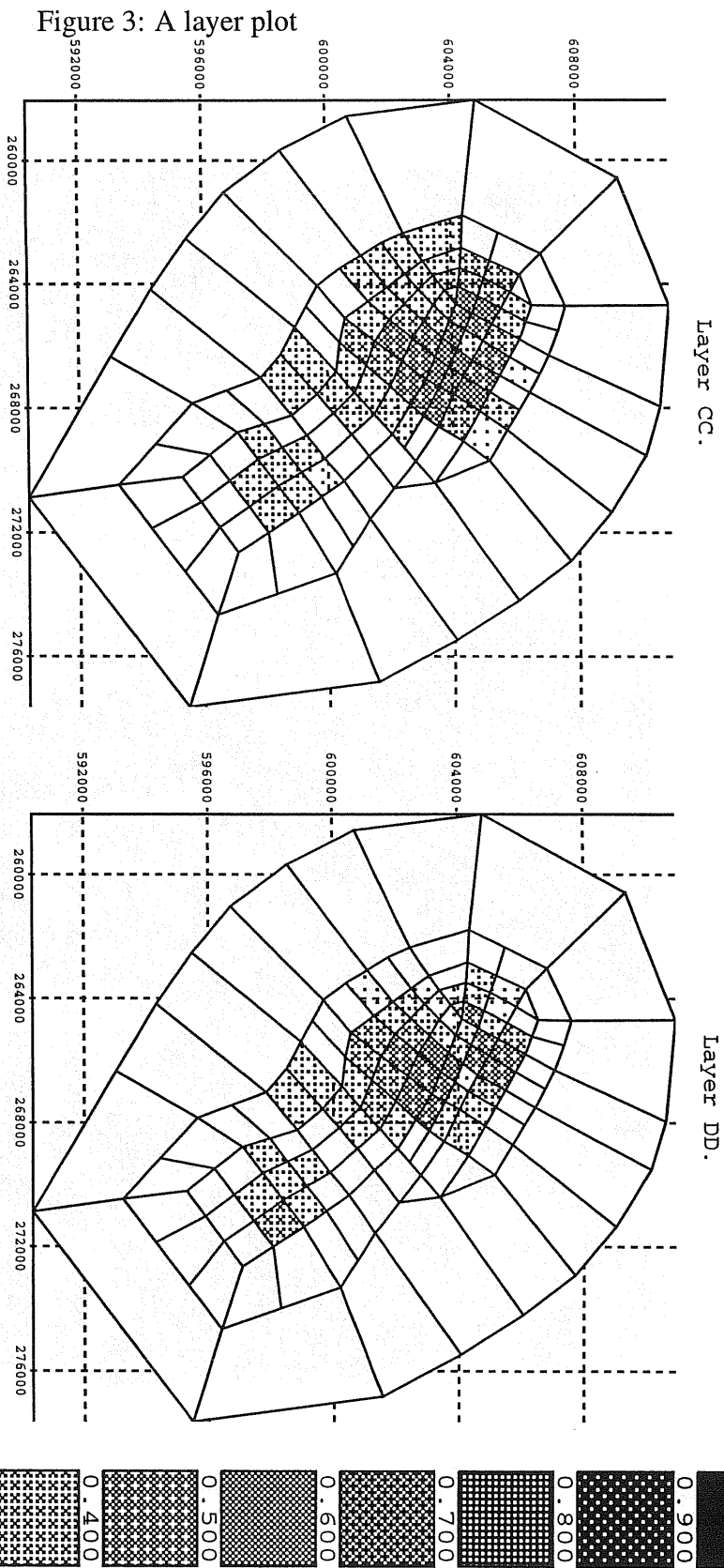


Figure 3: A layer plot

Figure 4: A vertical slice

