

OR/19/015 Conclusions

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Busby, J P. 2019. Thermal conductivity and subsurface temperature data pertaining to the Glasgow Geothermal Energy Research Field Site (GGERFS). *British Geological Survey Open Report*, OR/19/015.

This report has compiled the measured thermal conductivity data from across the Scottish Central Belt to construct a best estimate of the thermal conductivity of the strata underlying GGERFS. A representative thermal conductivity log has been constructed and all of the thermal conductivity data are listed in [Appendix 1 - Measured thermal conductivity data](#).

All of the available measured subsurface temperature data from within a 20 km radius of GGERFS are listed in [Appendix 2 - Measured subsurface temperature data](#). The two closest temperature logs to GGERFS of equilibrium temperatures in the shallow subsurface are Maryhill and Hurllet House. The temperature gradient at Maryhill is 36.5°C/km compared to 22.9°C/km at Hurllet House. This can be explained due to the higher thermal conductivity at Hurllet House, where the sequence is the Limestone Coal and Lower Limestone Formations, compared to Maryhill, where the sequence is the Lawmuir and Clyde Plateau Volcanic Formations. The thickness weighted mean thermal conductivity at Hurllet House is 3.61 W m⁻¹ K⁻¹ compared to 2.04 W m⁻¹ K⁻¹ at Maryhill.

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