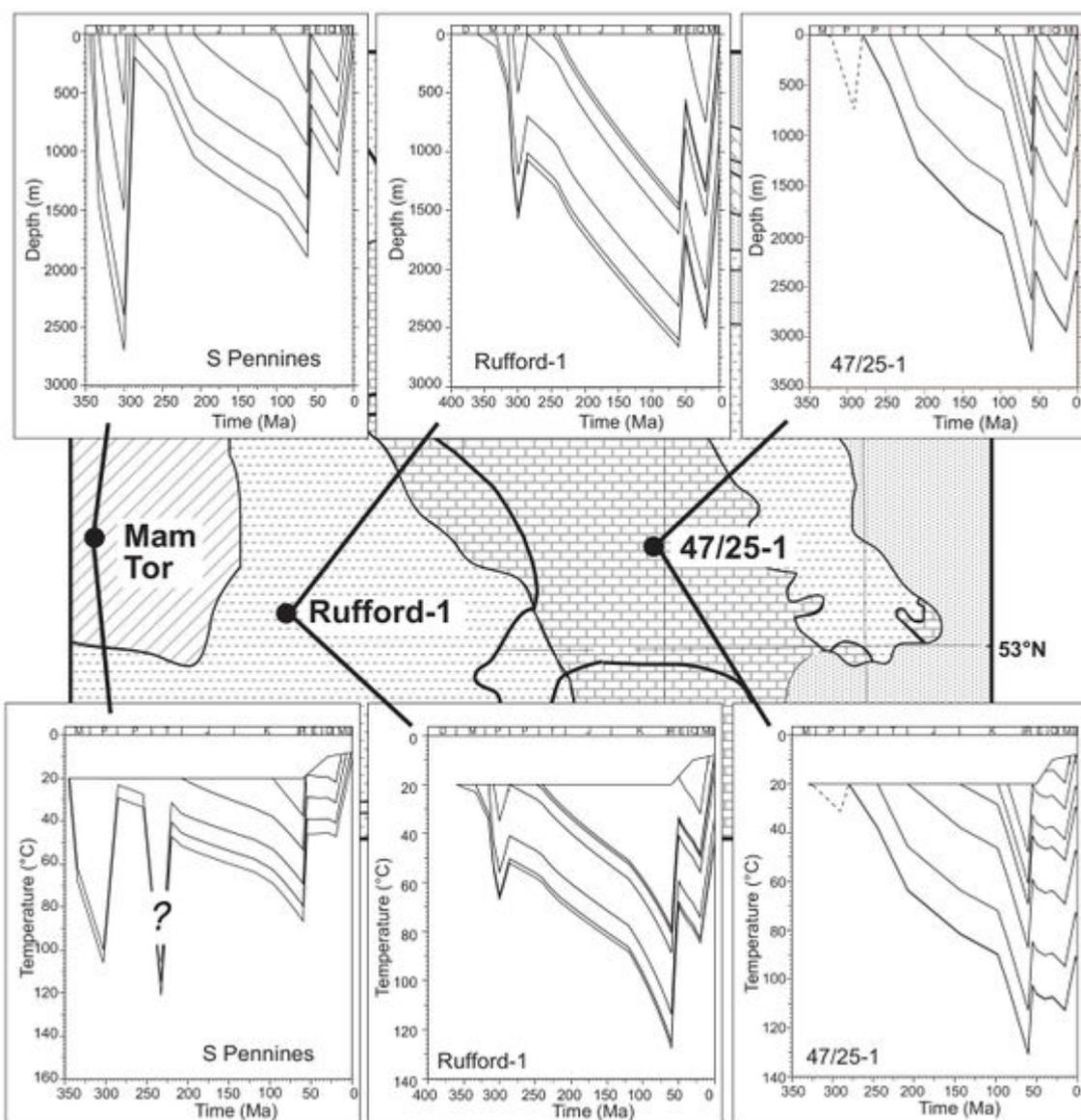


File:YGS CHR 03 POST FIG 07.jpg

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Summary

description

English: Figure 7 Schematic illustrations of reconstructed burial and exhumation histories and thermal histories for well 47/25-1, onshore well Rufford-1, and Edale Shales from outcrop in the southern Pennines, based on results presented here and in Green et al. (2001). The exact form of the Mesozoic history, particularly for the southern Pennines, is highly speculative, and only the points of peak palaeotemperature and burial in the Early Tertiary are well constrained, but the data discussed here suggest that the broad nature of the history is probably reliable. The earlier palaeothermal event revealed by AFTA in this area is shown as a discrete Triassic hydrothermal event, although this remains speculative. Palaeosurface temperatures have been held constant at 20°C prior to Late Cretaceous times in the thermal reconstructions, as the data are not sensitive to this part of the history. AFTA data from the Rufford-1 well provide strong evidence for two distinct episodes of cooling during the Cainozoic (Green et al. 2001), although this part of the history for the other two situations remains somewhat speculative at present.

From: [Carboniferous hydrocarbon resources: the southern North Sea and surrounding onshore areas](#), edited by J. D. Collinson, D. J. Evans, D. W. Holliday, N. S. Jones. Published as volume 7 in the Occasional Publications series of the [Yorkshire Geological Society](#), Copyright [Yorkshire Geological Society](#) 2005.

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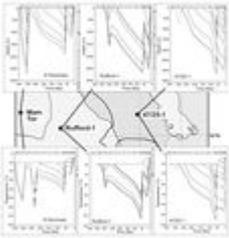
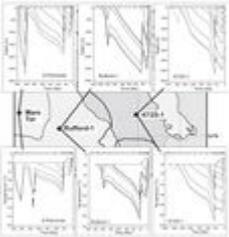
Carboniferous hydrocarbon resources: the southern North Sea and surrounding onshore areas

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