

# Petroleum Geoscience

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*Cover illustration:* Seismic line from the Silverpit Basin of the Southern North Sea depicting the prominent folds resulting from Early Cenozoic salt mobility within the Zechstein Supergroup. The zones of seismic disturbance that characterize the synclinal axes equate with Palaeogene igneous dykes, the intrusion of which is contemporaneous with halokinesis and causes the apparent thinning of the Chalk Group evident in the section. The intrusion and associated heat flow provides an attractive mechanism by which to re-interpret the genesis of the enigmatic ‘Silverpit Crater’ that has previously been ascribed to meteorite impact. Photo provided by John Underhill (The University of Edinburgh) and shown by permission of Rupert Hoare of the data provider, WesternGeco.