

Contents

Acknowledgements vii

Introduction

McKIE, T., ROSE, P. T. S., HARTLEY, A. J., JONES, D. W. & ARMSTRONG, T. L. Tertiary deep-marine reservoirs of the North Sea region: an introduction 1

Exploration and regional reservoir context

MUDGE, D. C. Regional controls on Lower Tertiary sandstone distribution in the North Sea and NE Atlantic margin basins 17

KILHAMS, B., HARTLEY, A., HUUSE, M. & DAVIS, C. Characterizing the Paleocene turbidites of the North Sea: Maureen Formation, UK Central Graben 43

ELDRETT, J., TRIPANAS, E., DAVIS, C., MCKIE, T., VIEIRA, M., OSTERLOFF, P. & SANDISON, T. Sedimentological evolution of Sele Formation deep-marine depositional systems of the Central North Sea 63

THOMAS, R. & HARTLEY, A. J. Seismic geomorphology and sequence stratigraphy as tools for the prediction of reservoir facies distribution: an example from the Paleocene and earliest Eocene of the South Buchan Graben, Outer Moray Firth Basin, UKCS 99

NAGATOMO, A. & ARCHER, S. Termination geometries and reservoir properties of the Forties Sandstone pinch-out, East Central Graben, UK North Sea 133

Reservoir characterization and appraisal: defining and managing uncertainty

GRECULA, M., HOGNESTAD, J., PRICE, S., FERRERO, M. B., DE BRUIJN, G., NORABERG, K. T., ENGENES, K., MEARS, P., VAN OJIK, K. & MCGARVA, R. Interplay of fan-fringe reservoir deterioration and hydrodynamic aquifer: understanding the margins of gas development in the Ormen Lange Field 157

COLLINS, J., KENYON-ROBERTS, S., CULLEN, B., WHITE, J., BORDAS-LE FLOCH, N. & DOWNEY, J. Arran Field: a complex heterolithic reservoir on the margins of the Forties Fan System 185

JONES, D. W., LARGE, S., MCQUEEN, A. & HELMI, A. Reservoir geology of the Paleocene Forties Sandstone Member in the Fram discovery, UK Central North Sea 219

Early field life: managing surprises

SCHWAB, A. M., JAMESON, E. W. & TOWNSLEY, A. Volund Field: development of an Eocene sandstone injection complex, offshore Norway 247

CHARLES, R. & RYZHIKOV, K. Merganser Field: managing subsurface uncertainty during the development of a salt diapir field in the UK Central North Sea 261

INGS, R. J., KONINGS, S. P. M., KUMAR, R., WOOD, E. L., MELVIN, A., STANBROOK, D. A. & AGNEW, C. Exploration of upside in a stranded discovery: Lochranza, a Donan Field satellite 299

Late field life: challenges and opportunities

ROSE, P. T. S. & PYLE, J. R. The habitat of bypassed pay in the Forties Field	333
MOORE, I. Alba Field – how seismic technologies have influenced reservoir characterization and field development	355
LYNN, G. J., BACCIOTTI, M., VAN BERGEN, P. F. & GRAY, K. R. Depositional controls on fluid flow in the Gannet A Field	381
Index	399