

Petroleum Geoscience

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CONTENTS – Volume 20, No 4

Geomechanical modelling of CO₂ geological storage with the use of site specific rock mechanics laboratory data

P Olden, J Min, G Pickup, E Mackay, S Hamilton, J Somerville & A Todd

323

Reservoir rock typing of Upper Shu'aiba limestones, northwestern Oman

S Al-Tooqi, S N Ehrenberg, N Al-Habsi & M Al-Shukaili

339

Using geological well testing for improving the selection of appropriate reservoir models

H Hamdi, P Ruelland, P Bergey & P W M Corbett

353

Preparation of microporous rock samples for confocal laser scanning microscopy

S M Shah, J P Crawshaw & E S Boek

369

A Bayesian shifting method for uncertainty in the open-hole gamma-ray log around casing points

R H Oughton, D A Wooff & S A O'Connor

375

Experimental study of surface modified silica nanoparticles in enhancing oil recovery

A Roustaei

393

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Cover image

Photomicrograph of a well-core sample from an Upper Shu'aiba (Lower Cretaceous) oil reservoir in northwestern Oman, representing one of the reservoir rock types defined in the article by Al-Tooqi *et al.* (*Petroleum Geoscience*, 20 (4), 339–352). This well-sorted grainstone, from 1.3 km depth, has helium porosity of 26% and gas permeability of 782 mD. Blue areas are mainly primary intergranular pores. Isopachous calcite cement covers most pore surfaces, and sytaxial calcite cement (white areas) surrounds echinoderm fragments. Peloids and bioclasts of algae and small benthic foraminifers, many with single coatings of fibrous marine cement, are also present. The field of view is 1.5 mm wide.