

Julie DEWIT, PhD

Address: Cambridge Carbonates Ltd.,
No. 4, The Courtyard, 707 Warwick Road, Solihull, B91 3DA. UK

Contact number: +47 412 20 848 (cell)

Email: julie@cambridgecarbonates.co.uk



Career Outline

Employment:

08/2015 – present: Cambridge Carbonates Ltd., UK. Current position: Consultant geologist, working on proprietary and non-proprietary projects.

01/2015 – 07/2015: KU Leuven, Belgium. Position: Post-doctoral fellow and project coordinator of TraRAS JIP (Travertine Reservoir Analogue Study in collaboration with Total, Petrobras and BG).

2013 – 2015: KU Leuven, Belgium. Position: Post-doctoral fellow/subcontractor for Statoil for the Carbonate RDI group (Bergen, Norway) performing research into the interaction of carbonate and igneous rock within the frame of Statoil's South Atlantic reservoir strategy.

Core skills:

- Carbonate diagenesis and influence on reservoir properties
- Carbonate sedimentology
- Analysis of stable (carbon & oxygen) and strontium isotopes, fluid inclusion microthermometry, cathodoluminescence microscopy, geochemical (trace) element analysis
- (Geo-)statistical analysis of large porosity and permeability datasets
- Organising and leading field work
- Teaching carbonate geology courses
- Project management skills

Education:

2008 – 2012: Ph.D.: Genesis and reservoir properties of hydrothermal dolomites (HTD), Ramales Platform (northern Spain) (*KU Leuven*).

2006 – 2007: M.Sc. (Cum Laude) Environmental Sciences and Technologies (*KU Leuven*).

2002 – 2006: M.Sc. (Cum Laude) Geology (*KU Leuven*)

Professional Experience

2015 – present: Geologist, Cambridge Carbonates Ltd., UK.

Consultant geologist working on both proprietary and non-proprietary projects.

- **Sedimentological, diagenetic, sequence stratigraphy and reservoir characterisation projects:**

- **Characterisation of Dinantian carbonates of the Dutch subsurface** in the frame of ultra deep geothermal exploration (UDG).

- Reservoir study of **Carboniferous and Devonian carbonates of the Bonaparte Basin** (W. Australia): Interpretation of the depositional environment and cyclicity of Devonian and Carboniferous shelf carbonates based on core and thin section observations. Understanding the diagenetic processes controlling the reservoir properties of the carbonates by means of petrography (classic and cathodoluminescence), stable isotope analysis and fluid inclusion microthermometry data. The obtained results are used to predict different scenarios for the reservoir quality of an isolated platform prospect in the basin.
- **Diagenesis** study of heavily recrystallized and mineralised carbonates of **Mid Norway**.
- Reservoir characterisation of **Carboniferous carbonates of the Barents Sea**. Integrating core logging, depositional model and diagenetic history to build a reservoir model of the dolomitised, karstified, fractured and brecciated carbonates of the Loppa High.
- Microfacies and **numerical age dating by means of Sr isotope analysis of Oligocene – Miocene carbonates of Columbia**.
- Sedimentological and diagenetic studies of **Jurassic and Cretaceous reservoirs of the Gulf of Mexico**. Interpretation of FMI logs, depositional facies and diagenetic overprint to characterise the reservoir facies. Building a geological model to explain and predict the different reservoir potential observed in different wells.
- **Reservoir database** covering geological, petrophysical, seismic and production data of diagenetically altered and fractured reservoirs worldwide.
- **Oligocene - Miocene reservoir study of the Papuan fold-and-thrust belt (Papua New Guinea)**. Field work, mapping, describing and sampling of reservoir sequences and logging of cores. Interpreting depositional rock types and diagenetic history to understand and predict reservoir quality for the Elk and Antelope fields.

- **Multiclient reports:**

- **Fracture-related dolomites: insights into reservoirs and analogues**. Compilation of published and in-house data of fracture-related/hydrothermal dolomite reservoirs including petrophysical characteristics, reservoir size and production history, synthesising diagenetic and reservoir models for fracture-related dolomites formed in different tectonic settings.
- **Loppa High Karst**. Sedimentological studies of karsted late Palaeozoic sediments in the wells 7120/2-1, 7120/1-3 and 7220/11-3 of the Loppa High (Barents Sea, Norway).
- **Circum-Adriatic report**. Regional play assessment Circum-Adriatic fold-and-thrust belts. Reviewing and synthesising data of producing carbonate reservoirs and potential plays in underexplored areas (multiclient report for license round).

01/2015 – 07/2015: Project coordinator of the TraRAS JIP (post-doc at KU Leuven, Belgium):

- Team leader of the TraRAS group: facilitating internal meetings, planning research and field work
- Petrography and geochemistry of travertines from Ballik (Turkey)
- Spatial distribution of permeability and porosity of travertines from Tivoli (Italy)

2013 – 2015: Subcontractor for Statoil (post-doc at KU Leuven, Belgium):

- Management and planning of the Carbonate-Igneous Interaction project
- Classification of types and compilation of generic atlas of carbonate-igneous interaction based on extensive literature review
- Leading of field work in Sicily, Morocco and Oman

First author peer reviewed publications

- Dewit**, J., Huysmans, M., Muchez, Ph., Hunt, D.W., Thurmond, J.B., Verges, J., Saura, E., Fernandez, N., Romaine, I., Eesestime. P. and Swennen, R. 2012. Reservoir characteristics of fault-controlled hydrothermal dolomite bodies: Ramales Platform case study. In: Garland, J.G., Neilson, J.E., Laubach, S.E. and Whidden, K.J. (eds) Advances in carbonate exploration and reservoir analysis. Geological Society of London Special Publication, 370, 83-110.
- Dewit**, J., Foubert, A., El Desouky, H. A., Muchez, Ph., Hunt, D., F. Vanhaecke & Swennen, R., 2014. Characteristics, genesis and parameters controlling the development of a large stratabound HTD body at Matienzo (Ramales Platform, Basque-Cantabrian Basin, northern Spain), Marine and Petroleum Geology, 55, 6 -25.
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Other relevant skills

- Experience as teaching assistant at KU Leuven: *carbonate petrography and sedimentology*
- Co-leader of a field course organised by Statoil: *northern Spain field course*
- Languages: Native French and Dutch speaker, basic knowledge of Spanish and Norwegian