



Ingrid Demaerschalk

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Geomodelling Advisor

Expert geomodeller and Petrel power user, with extensive experience building reservoir models for a range of depositional environments (continental, deepwater and carbonates) for conventional and unconventional resources, onshore and offshore. Developed workflows and advised on modelling approaches and planning delivering fully integrated, fit for purpose models encompassing the required uncertainty ranges, enabling improved business decisions. Highly motivated, with strong communication and organisational skills, thrives on problem solving and getting the job done, on time.

- Geomodelling
 - Subsurface Discipline Integration
 - Modelling Approach and Planning
 - Model QC, Reviews and troubleshooting
 - Workflow Advice and Design
 - Junior staff mentoring/coaching
 - Software Testing
 - Documentation and Data Management
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Experience

In-Grid Solutions Ltd

2021-present

Director/Reservoir Modelling Advisor

Projects include:

- Bunter Sandstone CCUS Proof of concept modelling – Workflow design & optimisation (PGS)
- Ntomme (TEN – offshore Ghana) Reservoir modelling – Workflow development using ODiSi (Cegal) inversion products to improve history matching and development decision making (Tullow Oil – Operator)
- Geomodelling pre & post appraisal drilling of Iving Discovery PL820S for Statfjord and Skagerrak Reservoir Intervals. Subsurface modelling of hydrocarbons in place and improved dynamic matching for indicative development and resource estimates for Stage Gate Decisions & Concept Select. (MOL Norge – Operator).
- Other clients include Sasol, Cegal, Wellesley Petroleum, Rockflow Resources.

Tullow Oil

2014–2020

Reservoir Modelling Advisor

Geomodelling support and expert advice to the subsurface development teams including onshore Kenya and Uganda and offshore Ghana, Equatorial Guinea and Cote d'Ivoire.

- Developed bespoke workflow to include deepwater sedimentological features for improved history matching
- Developed best practice across the business units and provided expert input which helped build Tullow's geological reservoir modelling capability and developed staff skills
- Delivered fit for purpose reservoir models for field development planning and reserves audit
- Collaborated with key stakeholders, designed and tested a Petrel Python plug in with Cegal Ltd resulting in a commercially available plug-in
- Established good JV partner relationships through collaboration and knowledge sharing
- Developed internal technical Reservoir Modelling knowledge sharing platform including Petrel workflow library, Weekly Tips, and training material

BG Group

2004–2014

Consultant and Principal Consultant Geologist

2010–2014

Group Technical Authority for Reservoir Modelling and key member of the BG Advance Development Geoscience Team reporting directly to the Head of Development Geoscience.

- Developed a Petrel plug-in with Cegal Ltd which delivered Modelling guidance and enabled modelling documentation, subsequently winning a BG Group CEO Innovation Award
- Provided workflow advice, guidelines and project framing across all BG group assets
- Advised the development team in QGC in Australia supporting the project lifecycle from scoping models to the first full field model of a Coal Seam Gas to LNG project
- Evaluated and reviewed models as part of the Integrated Subsurface Assurance team
- Mentored and coached graduates and new users which increased competency



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- Developed, implemented and monitored data management guidelines which improved knowledge transfer and sharing of best practice
- Member of the Geology advisory board for the BG Geology Technology Programme. Worked closely with IT support and vendors, performed software testing and provided roll-out/upgrade advice, evaluated new tools
- Provided desk side support and training to new users, promoting knowledge sharing and integration with other disciplines

Principal Geologist

2007–2010

Delivered a number of models for UK and overseas assets as part of the Asset Support Team within BG Advance, including pilot and scoping models for the Santos Basin discoveries, several Norwegian continental shelf fields and a carbonate field, offshore India.

- Developed workflows and held modelling workshops and project framing sessions with assets. Reviewed models on behalf of the BG assurance team
- Mentored graduates and had one to one advisory and teaching sessions with less experienced modellers both at head office and overseas

Geologist and Lead Geologist

2004–2007

Asset Geologist in the CATS SNS team rebuilding geological models for BG Group's Southern North Sea Fields for Business planning and production forecasting.

- Infill well planning and subsequent model updates for BG Group's Southern North Sea fields including close integration with Geophysics and Reservoir Engineering functions
- Advised and trained a number of colleagues during a 2 months posting in India for the rebuild of the Panna and Tapti field models

Troy-Ikoda Ltd. (later RPS Energy)

1997–2004

Geologist and Senior Geoscientist

Member of the Reservoir Evaluation and Management Group gaining experience in Reservoir modelling using Petrel software for UKCS, UK onshore and FSU field reserve determination and evaluation projects.

- Key team member of several large integrated projects including interpretation of major new prospects for reserves assessment in Kazakhstan including the Tengiz super giant oil field
 - Assisted in several asset disposal projects providing systems, data management, software, logistics and technical support
 - Mapping, petrophysical and petro-acoustic evaluations
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Training and Education

- Keele University, UK - MSc Computing in Earth Sciences (Distinction)
- Catholic University Leuven, Belgium - Licentiaat Geology (Distinction)

Professional Memberships

- Fellow of the Geological Society of London
 - Geological Society Energy Group Committee Member (January 2020 to December 2022)
 - Co-convenor of the Geological Society Energy Group conference "Capturing Geoscience in Models"
- Member of the PESGB – Petroleum Exploration Society of Great Britain
- Member of the BVLG/Alumni Lovanienses – Professional Society for Geologists graduated from the Catholic University of Leuven, Belgium