THOMAS JEROME, *Geomodeling Advisor & Geologist,* M.Sc, P. Geo., P.M.P

2016 – Present ***President and principal consultant of GMDK Inc.***

A geologist by background, Thomas is an expert in reservoir modeling and is experienced in Petrel, GOCAD, SKUA and RMS. Through his 15 years practicing modeling, Thomas has gained a reputation of excellent advisory and project management skills. Thomas completed numerous projects in diverse reservoirs in the Western Canadian Sedimentary Basin (conventional & oil sands), in Canada – East Coast and international (Middle-East, Nigeria).

2011 – 2016 ***RPS Energy Canada Ltd.***

Reservoir Modeling Manager (2014 – 2016)

In addition to his responsibilities as Senior Reservoir Modeler, Thomas took on the role of Reservoir Modeling Manager in January 2014. Thomas is now overseeing all on-going reservoir modeling projects in RPS Canada, from writing proposals to developing new modeling workflows and reviewing results.

Senior Reservoir Modeler (2011 – 2016)

Thomas has completed reservoir modeling projects in diverse plays such as the oil sands, Foothills, tight oils, and offshore. He has been involved in all stages from velocity modeling, to time-to-depth conversion, structural and stratigraphic modeling, 3D petrophysical modeling, resources computations and pre-simulation. Typical projects include:

- **Well data management:** Gathering, reviewing and cleaning well databases of up to a few thousands of wells.
- **Velocity models / time-depth conversion:** Creating complex velocity models.
- **Structural modeling:** Building complex structural models (faults, erosions, complex folding) in time and depth.
- **Geostatistics:** Using modern geostatistical techniques to model facies and petrophysics in 3D.
- **Reserves estimates:** Assessing uncertainties in static models, leading to the creation of multiple scenarios and the definition of P10, P50, P90 reserves.
- **Well planning:** Using 3D models to place future well plans.
- **Pre-simulation:** Upscaling the geological 3D grids to build simulation grids.
- **Programming:** Coding macros to compensate for missing tools.
- **Reporting:** PowerPoint, reports, movies, live software presentations.
- **Geomodeling project management:** Defining scope and deadlines, communications and guiding the team.

2007– 2011 ***Senior Reservoir Modeler, Paradigm-Calgary***

- GOCAD and SKUA training, support and pre-sales in Calgary.
- Diverse consulting geomodeling projects (KNOC-Canada and TOTAL oil sand projects, Black Pearl heavy oil projects, Devon Foothills).

2004 – 2007 ***Senior Reservoir Modeler, Earth Decision, Middle East (bought by Paradigm in 2006)***

- Built both carbonate and clastic reservoir-scale models with GOCAD for our client, Saudi Aramco. Hundreds of wells involved. Workflows from well data management to pre-simulation and volume computations.
- Helped geosteer 60 horizontal wells by updating the 3D static geological models around those wells in real-time. Involved close collaboration with geologists and engineers to adjust the drilling in real-time based on the prediction of the updated 3D models.

1999 - 2004 ***Reservoir Modeler, LIAD Laboratory (France)***

- Worked on how to build a 3D static model, not only from seismic and well data, but from sparse field data. It involved implementing numerous new tools in GOCAD.
- Gained an in-depth knowledge of the mathematics behind reservoir modeling packages like GOCAD.

RECENT PUBLICATIONS:

March 2016 ***3 papers at the GeoConvention (Calgary, Canada)***

- **Three common misconceptions about geomodeling;** T. Jerome and Patou Zeleke
- **A Geomodeling workflow used to model a complex carbonate reservoir with limited well control : modeling facies zones like fluid zones;** T. Jerome, Ke Lovan and S. Gentile
- **Coupling geomodeling and fracture stimulation modeling – preliminary results**; T. Jerome, I. Ishaya and B. Golinowski

2015 – on-going ***Series of 10 papers on "geomodeling: a team effort to better our reservoirs"***

Thomas is the main author of all the papers with different co-authors each time. Each paper presents one aspect of geomodeling in terms general enough for non-specialists.