

CURRICULUM VITAE

Mikhail N. Yakimov

Nationality: **Australian**
Education: **MSc, Geology and Geophysics**
Telephone: **+61-4-22199649 (mobile)**
Email: **Mike.Yakimov@petronode.com**
Skype: **myak5555**

Practical Experience and Qualifications:

- Clastic, carbonates, naturally-fractured and unconventional (tight gas, coal seam gas) reservoirs' evaluation. Expert user of **Techlog** (all versions from the inception: 2006.1), **Petrolog** (v 10 and 11), **WellCAD**. Wide experience with Wireline and LWD formation evaluation methods: from basic electric logs to geoacoustics and NMR. Successfully implemented automated field-wide formation evaluation solutions with **Python** and **C#** programming languages.
- Experienced in **DST** planning and interpretation. Expert in Wireline **formation testing** and sampling (with MDT, FRT, RES tools). Wide experience in planning, supervising and interpreting **production logging** operations (PLT), including pulse neutron (RST) and other advanced methods. Experienced PTA interpreter (using Kappa suite and PAN System).
- **Petrel** static and dynamic models construction. Experienced user of Petrel versions starting from 2004. Co-authored 3 large-scale (>5 million cells) major reservoir models. Assisted in MoReS large-scale cluster-based simulator model construction. Fully proficient with FORTRAN programming language.
- Expert in **borehole seismic** applications and interpretation. Co-authored Schlumberger VSI Workbench and WAVE software. Proficient in 2D and 3D seismic interpretation: TZ conversion, structural interpretation, stratigraphical correlation.
- Fully proficient with probabilistic interpretation and **uncertainty analysis**. Successfully implemented field-wide probabilistic reserves and production profiles estimates. Proficient with Palisade @RISK software.
- Good practical experience with routine and special core analysis' results QC and interpretation. Constructed **capillary pressure models** and relative permeability models, including programming code in Python and FORTRAN for interpretation software, static models and dynamic simulators.
- Expert in **wellsite data transmission**. Co-authored Schlumberger *InterACT* software (US Patent obtained).
- Geoscience applications and geoscience database skills. Co-authored major field evaluation projects. Experienced user of **RECALL** (with Python and FORTRAN programming.)

- Excellent technical report writing, presentation and communication skills.
- Sound project management skills. Fully proficient with Microsoft Project. Able to coach and mentor junior geoscience personnel.
- Proven track record. Over 400 individual wells with advanced formation evaluation methods interpreted, from 10 countries. Supervised and interpreted over 120 DST and wireline formation tester operations, from 8 countries. Supervised and interpreted over 60 advanced borehole seismic operations, from 7 countries. Co-authored and successfully submitted two Russian Federation reserves' estimate reports, with corresponding technical audits. Provided data analysis for two US Securities & Exchange Commission submissions.

Computer / Software Experience:

- C++ (including embedded applications)
- C#
- Python
- SQL – application programming level.
- FORTRAN
- CVS
- Windows-based and Linux-based workstations – expert user.
- Office applications – expert user.
- Petrel
- Petrolog
- Techlog
- WellCAD
- Kappa Ecrin
- PanSystem
- PVT Sim
- PI
- Blender

Employment History / Experience:

Jun/2014-present

Geoscience Consultant, Petronode, Australia.

Leading a start-up geoscience consultancy. Personally involved with Petrophysics and Structural Interpretation projects and software development / customisation. Conduct training for clients.

Jun/2011-May/2014

Petroleum Consulting Business Unit Manager - Australasia, Weatherford International, Australia.

Leading a 9-strong team of log analysts, performing formation evaluation, wireline log analysis, borehole image analysis and core data analysis for multiple oilfield and coal-mining clients in Australia and New Zealand. Brought consultancy product line from \$1.6 to \$2.8 mln/year. As part of my duties,

I have developed personally and introduced a number of new processing and interpretation services in Weatherford Australia, including advanced petrophysical studies, borehole seismic and microseismic monitoring analysis and acoustics interpretation. Administered training courses in Petrophysics, Wireline formation testing and sampling, Borehole Seismic, Petrolog 10.x / 11.x and Techlog / Prospect software.

Nov/2006-Oct/2010

Senior Petrophysicist, Sakhalin Energy Investment Company, Ltd. (operation unit of Shell PLC).

As part of multi-disciplinary geoscience team for Piltun-Astokhskiye oil and gas deposit I performed formation evaluation, wireline/LWD log analysis and core data analysis. Based on the prior wells historical data, I developed algorithms for data processing and interpretation. In direct liaison with geophysicist and operation geologist I assured day-to-day input into static and dynamic models for Piltun-Astokhskiye, and performed reserves estimates, both SEC and Russian - compliant. As additional responsibilities I performed coaching of graduate petrophysicists, supervised wellsite logging operations and managed logging contractors. Prior to Piltun-Astokhskiye, I was working within the same company as Senior Petrophysicist for Lunskiye gas/condensate field, being directly responsible for the planning, procurement and operational execution of LWD and wireline logging, including formation evaluation, production logging and well and reservoir surveillance. Three end-to-end Petrel / MoReS reservoir models completed.

Oct/2004-Aug/2006

Novosibirsk Technology Centre Manager, Schlumberger – Russia.

Led the centre from starting from scratch to establishing a permanent R&D facility. Subject Matter Expert and engineering lead role.

Jun/2002-Sep/2004

Project Manager, Schlumberger - SKK (Tokyo, Japan).

Led development of Versatile Seismic Imager and Seismic Vision While Drilling integration project.

Jun/2000-May/2002

Section Manager - Communication Systems and Services, Schlumberger -ATC (Austin, USA).

Led the engineering team. Our group developed several projects within Schlumberger Data Delivery Framework: InterACT Web Witness 3.0/4.0, TransACT 5.0/5.1, UCCD Manager 3.0/3, InterACT PRTI, WITSML Server.

Feb/1993-May/2000

Schlumberger. Held various field engineering positions in Russian Federation, Malaysia, Viet Nam, Cambodia, Thailand.

Completed a number of high-profile projects for FINA, AEDC, JVPC, VietSovPetro, Exxon-Sakhalin, Enterprise Oil – Cambodia, Idemitsu, VietSovPetro, AEDC Viet Nam and OMV GMBh.

Jun/1989-Jan/1993

Programmer (part-time, simultaneously with University degree), then Research Engineer, Institute of Geology and Geophysics, Siberian Branch of Russian Academy of Sciences

Developed algorithms for 3D mathematical modelling in geoelectrics. The responsibilities included development of algorithms and human interfaces for commercial interpretation software.

Education:

1992: MSc - Geophysics, Novosibirsk State University, Russia, diploma *Magna Cum Laude* (“With Excellence”)

1983-1985: Academician Lavrentiev's Physics and Mathematics School in Akademgorodok.

Recent Safety Training and Certifications:

Jun-2011: Weatherford on-boarding – including general safety and First Aid/CPR (Brisbane)

Jun-2011: RACQ Defensive Driving (Brisbane)

Apr-2010: BOSS/HUET/Arctic-grade offshore structure escape (Yuzhno-Sakhalinsk)

Mar-2009: First Aid / Emergency Responder (Yuzhno-Sakhalinsk)

Recent Courses and Continuing Education:

Oct-2013: Prospect / Petrolog 11 Geoacoustics (Fort Worth)

May-2013: Techlog 2012.1 (Houston)

Sep-2012: Management Development Programme (Brisbane)

Aug-2012: ASP Insite (microseismic monitoring) software training (Kuala Lumpur)

Apr-2012: PanSystem 2011 user course (Brisbane)

Mar-2012: WellCAD 4.4 user course (Brisbane)

Mar-2012: AVO methods and applications (Brisbane)

Nov-2011: Clay minerals petrology (Brisbane)

Jan-2010: Integrated production economics (Shell, Malaysia)

May-2009: SEC-compliant reserves reporting (Shell, Yuzhno-Sakhalinsk)

Feb-2009: Applied Geostatistics (Shell, Yuzhno-Sakhalinsk)

Oct-2008: Well test planning and advanced PTA interpretation (Shell, Houston)

Apr-2008: Integrated exploration workshop (Shell, Rijswijk)

Mar-2007: Integrated waterflood planning and implementation (Shell, Yuzhno-Sakhalinsk)

Dec-2006: Advanced Petrophysics (Shell, Rijswijk)

Oct-2005: North Sea Flow – Metering Workshop (Norway)

Jan-2005: Finance for non-financial managers (Schlumberger, Tyumen)

Mar-2004: Programming methodology (A.Cockburn, Tokyo)

Jan-2003: Rational Unified Process (Rational, Austin)

Professional Qualifications and Affiliations:

Associate, SEG, 1990-present.

Member, SPE, 2004-present. Held (elected) directorship position for Y.-Sakhalinsk Branch, 2008.

Member, SPWLA, 2011-present.

Professional Achievements:

Russian Federation's **Ministry of Mineral Resources recognition award**, 2009, Lunskeye geological model

Schlumberger Innovation Recognition, MEA, 2004, seismic VISION

Bronze Award, **Performed by Schlumberger**, 2002, InterACT system

Publications and Presentations:

- Juli A.Dashevski / Nickolay V. Krivonogov / Eugeni A. Mitrofanov / Mikhail N. Yakimov, *SONET - System of Computer Interpretation of V.E.S. Data*, SORAN Institute of Geology and Geophysics, 1991
- M.Yakimov, *Computer modelling of 3D subsurface structures for Borehole-to-Surface electric prospecting*, NSU, 1992
- M.Yakimov, *The Dark Art of Cement Evaluation*, first presented in Y.-Sakhalinsk, Apr 2007.
- M.Yakimov, *3-day course on MDT pressure testing and sampling*. First presented in Y.-Sakhalinsk, Nov 2007.
- M.Yakimov, *5-day course on Petrolog petrophysics and basic log analysis*. First presented in Brisbane, Jan 2012.
- M.Yakimov, SPE formation evaluation seminar presentations: “Geoacoustics” and “The Dark Art of Cement Evaluation,” Brisbane, Sep 2012.
- M.Yakimov, *10-day course on Geoacoustics and Geomechanics*. First presented in Kuala-Lumpur, Jan 2013.
- M.Yakimov, *3-day course on Geoacoustics fundamentals*. First presented in Moscow, Mar 2013.
- T.Gan, S.Mazumder, M.Yakimov, and M.Croon, *Locating and Quantifying Coal Cleats with Electric and Acoustic Imagers for Coal Seam Gas Development*. Presented at APPEA 2014 Topical Conference, Perth, Apr-2014.

References:

Please kindly see the cover letter.