

# CURRICULUM VITAE

## Mikhail N. Yakimov



**Nationality:** Russian.  
Australian Permanent Residence holder (BN-136 skilled independent visa).

**Education:** MSc, Geology and Geophysics

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### Practical Oilfield Experience and Qualifications:

- *Petrel* static and dynamic models construction. Experienced user of all *Petrel* versions starting from 2004. Co-authored 3 large-scale (>5 mln 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.
- 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, including pulse neutron and other advanced methods. Experienced PTA interpreter (using *Kappa* suite and *PAN System*).
- 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 US Security Exchange Commission and two Russian Federation reserves estimate reports, with corresponding technical audits.

**Computer experience:** *Windows*-based and *Linux*-based workstations – expert user. Office

applications – expert user. *Petrel, Petrolog, Techlog, WellCAD, Kappa Ecrin, PanSystem, PVT Sim, PI* – advanced user. *FORTRAN, C++, C#, Python, SQL* – application programming level.

**Languages:** English-fluent, Russian-native, Japanese-basic

## **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-Astokhskoye oil and gas deposit I performed formation evaluation, wireline/LWD log analysis and core data analysis. Based on the historical data of the prior wells, 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-Astokhskoye, 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-Astokhskoye, I was working within the same company as Senior Petrophysicist for Lunskeye 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 3.0/3.1, 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")

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

## 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 (Y-Sakhalinsk)

**Mar-2009:** First Aid / Emergency Responder (Y-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 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

Innovation Recognition, MEA, 2004, seismic VISION

Bronze Award, Performed by Schlumberger, 2002, InterACT system

## Publications, Presentations and Patents:

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 modeling of 3D subsurface structures for Borehole-to-Surface electric prospecting, NSU, 1992

M.Yakimov, "The Dark Art of Cement Evaluation," Presented in Y.-Sakhalinsk, Apr 2007.

M.Yakimov, 3-day course on MDT pressure testing and sampling. Presented in Y.-Sakhalinsk, Nov 2007.

M.Yakimov, 5-day course on Petrolog petrophysics and basic log analysis. Presented in Brisbane, Jan 2012.

M.Yakimov, SPE formation evaluation seminar presentations: "Geoacoustics" and "The Dark Art of Cement Evaluation," Presented in Brisbane, Sep 2012.

US 6519568, Awarded, 2003: Web-Based System and Method for Electronic Data Delivery (File #: 59.0055, US Patent Application: 20040098452)

RU 2005141354, Awarded, 2007, Wireline Downhole Gas Chromatograph

M.Yakimov, 10-day course on Geoacoustics and Geomechanics. Presented in Kuala-Lumpur, Jan 2013.

M.Yakimov, 3-day course on Geoacoustics fundamentals. Presented in Moscow, Mar 2013.

M.Yakimov, 3-day course on Geoacoustics fundamentals. Presented in Nizhnevartovsk, 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." Accepted for APPEA 2014 Topical Conference, Perth, Apr-2014.

## **References:**

Available upon request