Yuri Rodionov

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Summary of Qualifications

- 16 years of experience in unconventional reservoirs stimulation, production, hydraulic fracture monitoring and evaluation
- Experience with completion engineering and production stimulation design in major plays of the continental USA
  (Barnett, Eagle Ford, Haynesville, Permian, Piceance, Bakken, Marcellus, Fayetteville) and Canada (Montney, Horn River, Cardium)
- Proficient with hydraulic fracture design, on-site execution and post-job evaluation in broad range of
  unconventional plays
- Re-stimulation candidate selection, treatment design, execution and real-time optimization including diversion application and real-time microseismic monitoring
- Extensive knowledge of microseismic hydraulic fracture monitoring, evaluation and optimization including real-
  time applications
- Ability to work with and lead multi-disciplinary teams of engineers and geoscientists in fast-paced environment
- Software knowledge: **Aries**, **Petrel**, Nemo, **Mangrove (Kinetix Shale)**, **Spotfire**, **IHS Harmony, Kappa,** GOHFER, **Prosper**, FracCADE, ProCADE, StimCADE, FracCAT, Advanta, SWPM, ECLIPSE, Saphire, **OFM**, TechLog, Planar3D, DECIDE, PipeSIM, **WellTEST, ECLIPSE, INTERSECT**

October 2017–present **Marathon Oil**
Houston, TX

Senior Reservoir Engineer, Permian Asset

- Surveillance and reservoir delineation in Northern Delaware basin
- Production forecasting, reserves estimates and type curve generation
- Economic evaluation of COOP AFEs, OBO well proposals and trades
- Technical and economical analysis of completion trials
- Field development planning and well spacing optimization
- Advanced integrated hydraulic fracturing and reservoir simulation
- Planning and analysis of field data acquisition (well interference analysis using bottomhole pressure gauges, DAS/DTS, DFITs, logging etc.)
- Well interference analysis and remediation

February 2017–September 2017 **Schlumberger**
Houston, TX

Senior Production Stimulation Engineer

- Overseeing all current group activities, peer-reviewing ongoing projects, assisting with complex cases, mentoring junior engineers
- Performing the stimulation and production simulation in integrated projects focusing on field development strategies, analyzing the production data, performing production history matching and optimizing the completion design for improved EUR

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- Assisting with business development, technical presentations and industry conferences, workshops and other events
- Overseeing the deployment of advanced workflows for complex multi-well and multi-generation stimulation and reservoir simulation models in Eagle Ford, Woodford, Vaca Muerta and Permian (Delaware) basins
- Performing hydraulic fracture and reservoir modeling in variety of unconventional plays for lateral landing
  optimization, production enhancement and in-fill development

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Sep 2012 – January 2017 **Schlumberger**
Houston, TX

Senior Production & Stimulation Engineer

- Worked within multi-disciplinary team of engineers and geoscientists and implementing the technologies and integrated workflows to provide completion and production solutions to customers in the **Eagle Ford Shale, Austin Chalk** and **Permian basin (Delaware and Midland basins**)
- Provided in-house support for the independent E&P operator for completion optimization projects in the Eagle
  Ford asset and supported other assets as needed
- Performed hydraulic fracture and production modeling including complex multi-well and multi-generation pad cases
- Involved in the re-fracturing candidate selection, completion and stimulation strategy design and post-treatment evaluation
- Performed completion and production data studies to identify production drivers and optimize completion
  strategies

Feb 2011 - August 2012 **Schlumberger**
Calgary, AB

Production & Stimulation Engineer

- Implemented engineering methods for enhancement of well performance, completion and stimulation techniques using microseismic monitoring
- Managed several real-time high-risk stimulation optimization projects on compromised completions (casing cementing issues, casing deformations) using microseismic monitoring and dynamic diversion in Montney shale
  resulting in time and cost efficient stimulation of the intended intervals with positive impact on well production
- Managed first client's microseismic monitoring optimization project in the Horn River basin, provided real-time analysis and completion optimization using integration of microseismic and reservoir data (stage and perforation
  cluster spacing optimization, geohazard avoidance, screenouts forecast and mitigation)
- Evaluated open hole packer and sliding sleeves completions in the Cardium play, identified common stage isolation issues and provided recommendations for completion design improvements and screenout avoidance
- Prepared technical reports and presentations, participated in reviews of microseismic hydraulic fracturing
  monitoring jobs with customers, analyzed post-job treatment data and provided recommendations for stimulation treatment optimization
- Participated in the industry conferences and workshops, presented the theory and methods of hydraulic fracturing
  design, execution and evaluation including microseismic monitoring and interpretation

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Jan 2009 - Jan 2011 **Schlumberger**
Dallas, TX

Production & Stimulation Engineer

- Managed more than 50 hydraulic fracturing optimization projects using microseismic in most of the major plays throughout the continental United States (including but not limited to Barnett, Eagle Ford, Haynesville, Permian, Piceance, Bakken, Marcellus basins)
- Responsible for logistic planning, onsite execution, and post job evaluation of stimulation projects ensuring customer's objectives are met
- Participated in integration and interpretation of microseismic, pumping and reservoir data in order to evaluate and optimize existing hydraulic fracturing practices, identify and address deficiencies, develop new and improve existing completion strategies, capture best practices, lessons learned and case histories
- Prepared post job evaluation reports in collaboration with geophysicists, provided recommendations for future treatments
- Prepared presentations of project results and presented them to client's asset and management teams
- Successfully executed several Barnett Shale re-fracturing treatments using various methods of recompletion (cement squeeze, expandable liners, fiber assisted diversion)
- Participated in development and field testing of new software, post-job evaluation workflows and deliverables
- Trained junior field and production engineers on the use of software, field projects execution and post job deliverables preparation

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Jul 2007 - Dec 2008 **Schlumberger**
Cleburne, TX

General Field Engineer/Fracturing Cell Leader

- Managed two Barnett Shale fracturing crews ensuring compliance with service quality and HSE standards
- Prepared material balance, equipment and materials inventory for fracturing treatments
- Responsible for logistics of fracturing equipment and materials ensuring compliance with DOT regulations and internal safety standards
- Managed costs associated with execution of fracturing jobs and preventive equipment maintenance schedule
- Audited post-job invoices, inventory sheets and investigated SQ issues
- Educated junior field engineers and field personnel on hydraulic fracturing design, execution and evaluation

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Oct 2004 - June 2007 **Schlumberger**
Cleburne/Graham, TX

Field Engineer

- Responsible for on-site support of field operations during the hydraulic fracturing jobs on more than 160 wells throughout the Barnett Shale play and on well-site locations throughout Arkansas and Oklahoma (Woodford, Fayetteville)
- Provided on-site QA/QC of fluids (Linear, Crosslinked, Foam etc.) and proppants, inventory control and management and equipment troubleshooting
- Responsible for real-time data acquisition, pumping schedule management, mass balance calculations and post-job reports
- Interacted with field customer representatives and completion engineers in order to ensure that the stimulation objectives are met

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ProfessionalPreparation

1999 - 2004 **Russian State University of Oil and Gas**
Moscow, Russia

- Masters of Engineering, Mechanical Engineering

Industry Training Courses

- Production Stimulation Operational and Technical courses within Schlumberger (Hydraulic Fracturing, Matrix Acidizing, Sand Control)
- Applied Production Engineering course (Petroleum Geology, Log Analysis, Reservoir Engineering, Production Decline Analysis and Forecast, Well Test Design and Interpretation, Nodal Analysis, Production Enhancement Techniques)
- Production Stimulation Engineering course (Formation Evaluation using Advanced Logging Techniques, Reservoir Simulation using Single and Multi Well Models, Production Evaluation and Candidate Recognition, Advanced Geomechanics, Advanced Well Testing)
- Shale Gas Evaluation course (Geologic and Exploration Considerations, Shale Gas Reservoir Analysis and Evaluation, Reservoir Quality Considerations for Borehole Placement)
- Fracture Pressure Analysis
- Practical Aspects of Shale Gas Geomechanics (Mechanical Properties, Shale Anisotropy and Heterogeneity, Wellbore Stability, Mechanical Earth Modeling, Shale Stimulation, Microseismic)
- Risk, Uncertainty, and Decisions in E&P Projects (Exploration Economics, Decision Trees, Statistics, Monte Carlo Approach, Trends and Regression Models)
- Economics of Unconventional Resources (Lifecycle of Unconventional Resources, Development Strategies, Project Cash Flow Modeling, Decision Modeling and Analysis)

Miscellaneous

Publications

- **Yuri Rodionov** et al. "Optimization of Infill Well Development Using a Novel Far-Field Diversion Technique in the Eagle Ford Shale", URTeC 2670497, 2017

- Kush Gakhar, **Yuri Rodionov** et al. "Engineering An Effective Completions and Stimulation Strategy for In-Fill Wells", SPE 184835, HFTC 2017

- Kush Gakhar, Dan Shan, **Yuri Rodionov** et al. "Engineered Approach for Multi-Well Pad Development in Eagle Ford Shale", URTeC 2431182, 2016

- **Yuri Rodionov** et al. "Real-time microseismic enables effective stimulation through actively managed diversion with a Montney example", AAPG extended abstract, GeoConvention, 2012

- **Yuri Rodionov** et al. "Optimization of Stimulation Strategies Using Real-time Microseimic Monitoring in the Horn River Basin", AAPG extended abstract, GeoConvention, 2012

- S.C. Maxwell, Z. Chen, I. Nizkous, R. Parker, **Y. Rodionov** and M. Jones, Schlumberger, "Microseismic Evaluation of Stage Isolation with a Multiple-Fracport, Openhole Completion", CSUG/SPE 149504, 2011

Presentations

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- "Engineered Approach to Completion and Stimulation Strategy on Infill Wells", presented at SPE Refracturing workshop, 2017
- "Engineering an Effective Completion and Stimulation Strategy for Infill Wells", presented at HFTC, 2017
- "Impact of Well Spacing, Pad Configuration and Completion Strategy on Infill Well Production", presented at SPE workshop, Strategies for Identifying and Exploiting Sweet Spot in Unconventional Reservoirs, 2016
- "Effective Multi-Well Pad Development Strategy for Unconventional Reservoirs", e-Poster at SPE, Emerging Engineers Conference, 2016
- "Real-time Microseismic Enables Effective Stimulation through Actively Managed Diversion with a Montney Example", presented at the 14th Annual Canadian Society for Unconventional Resources Conference (CSUR), 2012
- "Microseismic Monitoring of Ball Drops During a Sliding Sleeve Frac", presented at CSEG convention, 2012
- "Optimization of Stimulation Strategies Using Real-time Microseismic Monitoring in the Horn River Basin", presented at CSEG convention, 2012
- "Real-time Microseismic Enables Effective Stimulation through Actively Managed Diversion with a Montney Example", presented at CSEG convention, 2012