

Name: Juli Jalaludin
Position: Reservoir Engineer
Nationality: Malaysian
Age: 42

Work Experience:

June 2013 – Sept 2014 Reservoir Engineer Consultant (Envision AS)

Gyda Subsurface, Talisman Energy AS, Stavanger, Norway

Lead reservoir engineer in multi-disciplinary team responsible for dynamic simulation update of a brown field to identify and mature infill candidates

- Reservoir simulation (Petrel/Eclipse) from Upscaling to Prediction
- History Matching sensitivities
- Prediction sensitivities and uncertainty analysis for infill development including tornado diagrams and risking analysis
- Peer and management reviews
- PBU analysis, well database, pressure data management and analysis
- Waterflood optimization
- Mentored and coached junior engineers
- Reports and presentations

June 2010 – May 2012 Reservoir Engineer, Samarang Project Management Team, Data Consulting Services, Schlumberger, Kuala Lumpur

- Reservoir simulation work from Upscaling to Prediction
- Prediction forecast Sensitivities including production enhancement, infill, secondary and EOR recovery
- Reserves Reporting and Classification

Apr 2010 – June 2010 Reservoir Engineer, Sirikit S1 Waterflood optimization study, Data Consulting Services, Schlumberger, Kuala Lumpur

- Reservoir simulation study to improve recovery from 20 to 30% through waterflood optimization
- RFT/Fluid Contact Analysis, Rock-typing based on SCAL

Nov 2009 – Apr 2010 Reservoir Engineer, Bongkot WP9 CO₂ injection study, Data Consulting Services, Schlumberger, Kuala Lumpur

- Reservoir simulation study to optimize depletion prior to CO₂ disposal through injection into depleted reservoirs
- Use of E300 compositional simulation for history matching and prediction

Jun 2009 – Nov 2009 Production / Reservoir Engineer, Bongkot WP8 Oil Prod Opt Study Data Consulting Services, Schlumberger, Kuala Lumpur

Mature gas field with thin multi-layer sand (100+ reservoirs) produced in commingled monobore:

- Dual role as PTech/RE

- Performed detailed well review and generated comprehensive Production Enhancement opportunities list.
- Assisted reservoir simulation history match for commingled gas reservoirs.
- Forecasting infill wells for oil rim development with respective depletion strategy.

**Jun 2006 – Jun 2009 Production / Reservoir Engineer, Samarang FDP Project
Data Consulting Services, Schlumberger, Kuala Lumpur**

Reservoir Engineer in Samarang FDP project:

- Dual role PTech/RE
- Work includes building reservoir simulation model, history matching and forecasting for future infill development.
- Forecasting incremental volumes associated with waterflood project in a minor isolated fault block.
- Compiled production profiles for Field Development options for Samarang from combination of separate ECLIPSE model output with respective facility and drilling plans/constraints.

Aug 2004 – Jun 2006 Production Engineer, Samarang FFR Project

Data Consulting Services, Schlumberger, Kuala Lumpur

Production Technology discipline leader in Samarang FFR project, solely responsible for identifying production enhancement opportunities for near-term execution:

- Work includes production database optimization, by well/reservoir performance analysis, individual well decline analysis for reserves estimation and production forecasting, and water movement study.
- Built a fieldwide production enhancement opportunities database and developed standard process using specific performance indicators for candidate identification, categorization, and high-grading.
- Developed step-by-step process nodal analysis to mature candidates.
- Mentored junior engineers and gave short lectures on study results and other basic reservoir process topics.

**Mar 2004 – Jul 2004 Reservoir Engineer, Bokor FFR Project,
Data Consulting Services, Schlumberger, Kuala Lumpur**

Responsible for identifying new workover opportunities in Bokor:

- Update of existing simulation model to incorporate latest data for incremental production estimate from prod enhancement candidates.
- Consolidated/sorted well data (production, intervention history, petrophysical properties) into a database for production enhancement opportunities generation.

Jan 2004 – Feb 2004 Subsurface Manager, Uzma Engineering, Shah Alam, Selangor

Responsible for overall bid package preparation for FFR works for Duyong, Temana & Tembungo fields for submission to Petronas Carigali.

- Oct 2000 – Dec 2003 Reservoir Surveillance Engineer, Production Operations, ExxonMobil Exploration & Production Malaysia Inc Kuala Lumpur**
Responsible for reservoir management and surveillance of daily operations of two mature fields with over 100 wells:
- Analyzed monthly welltests to manage reservoirs and set near-term capacity and production target.
 - Reservoir Surveillance planning, execution and analysis (e.g. pressure survey, production logging, contact monitoring).
 - Secondary recovery optimization for pattern waterflood and gas injection.
 - Developed completion and perforation plan and unloading process of new drilled wells.
 - Led a multidisciplinary team to identify wellwork and debottlenecking opportunities for enhanced capacity.
 - Daily gas sales monitoring effect on reservoir management.
 - Management of idle capacity and downtime.
 - Coordinator for water injection distribution to complex platforms environment.
- Apr 1999 – Sep 2000 Reservoir Engineer, Depletion Studies Section, Res Eng Division, ExxonMobil Exploration & Production Malaysia Inc, Kuala Lumpur**
Responsible for reservoir management and depletion study of a mature field:
- Decline analysis, reserves estimate, workover opportunities, production forecast.
 - Secondary recovery optimization based on voidage replacement ratio and reservoir performance analysis.
 - Gas disposition in a complex platforms environment.
 - Field Development Plan for new reservoirs.
 - Central coordinator for workover database. Coordinated input from field engineers, tracked and maintained database, developed rig workover costing and scheduling.
 - Run material balance for non-associated gas blowdown development for 2 fields of 1 TCF gas reserves.
- Jun 1997 – Mar 1999 Planning Engineer, Capacity/Coordination, Res Eng Division, Esso Production Malaysia Inc., Kuala Lumpur**
Provided management support in various planning activities:
- Overall coordinator for project timing and cost.
 - Economic analysis for long term development plan and drilling programs.
 - Monitored and consolidated reports regarding reserves and production forecasting.
 - Monitored EPMI resource database and resource changes during yearend cycle.
 - Monitored external expenditures with contractors/affiliates.

Aug 1995 – May 1997 Reservoir Engineer, Oil Development Section, Res Eng Division, Esso Production Malaysia Inc., Kuala Lumpur

Reservoir Engineer for two drilling programs:

- Well sequence and well planning preparation.
- Economic analysis for marginal wells.
- Interpretation of well logs for fluid contacts/oil saturation estimate and perforation interval decision.

Others:

- Job monitoring for routine/Special Core Analysis.
- Field Development Plan (FDP) for marginal fields.
- Flowstream effect using different size tubings.

May 1994 – May 1995 Research Assistant, Petroleum Engineering Department, Colorado School of Mines & Dept of Energy, Golden, CO

Responsible for data processing/analysis of producing wells in parts of Colorado (joint research project):

- Digitized and analyzed well logs to determine reservoir and fluid properties for STOIP calculations.
- Generated maps of reservoir properties and other general research.

Other Expertise:

- Expert in production enhancement opportunities identification, nodal & history matching analysis, production forecasting, and decline curve analysis for reserves estimation.
- Competent knowledge of dynamic simulation including up-scaling, initialization, history matching, and running prediction.
- Comprehensive knowledge in reservoir management, surveillance & operations including the management of secondary recovery.
- Experience covered several different fields under different operators in South China Sea.
- Familiar with Production Sharing Contract (PSC) environment.
- Skilled in multidisciplinary team working environment. Familiarity with cross disciplines such as G&G, surface operations, drilling and well interventions.
- Accustomed to interactions with various stakeholders e.g. partner/client/contractor.
- Familiar with QHSE and other controls requirement in oil & gas industry. Attended numerous safety related courses e.g. PPE, HUET, defensive driving, offshore/onshore safety, CPR, first aid.

External Publications:

J. K. Forrest, A. Hussain, M. Orozco, J. P. Bourge, T. Bui, R. Henson, and J. Jalaludin, **“Samarang Field – Seismic To Simulation Redevelopment Evaluation Brings New Life To An Old Oilfield, Offshore Sabah, Malaysia”** IPTC-13162-PP, October 2009

“Interdisciplinary Study of Reservoir Compartments”, US Dept of Energy and Colorado School of Mines joint research, Quarterly Technical Progress Report, Jan 27, 1995

Internal Knowledge Sharing:

J. Jalaludin, “**Wellbore Utility Matrix**” InTouch Best Practice #4981059, April 2010

Tan Chun Hock & J. Jalaludin, “**How to Create a Perforation Summary Chart and Stick Diagram in EXCEL**” InTouch Solution #4551725, August 2008

Tan Chun Hock, J.P. Bourge, J. Jalaludin, R. Henson, and T. Bui, “**How to Create Remaining Mobile Oil Thickness Map using Petrel, OFM & Eclipse**”, InTouch Solution #4527652, July 2008

S. Ahmad & J. Jalaludin, “**A Case Study on Methodology of Water Shut Off Candidates Selection in Mature Field**” InTouch Case Study #4527652, May 2009

A. A. Yaacob, D. Miraza, I. Mustafa, J. Jalaludin, S. Kusolsong, M. Zulkhifly, L. T. Tan, & N. Samat, “**Reservoir Integrated Workflow Implementation for an Oil Production Optimization Study in a Mature Multi-stacked Bongkot WP8 Gas Condensate Field**”, 2010 Reservoir Symposium, May 2010

R. Henson, S. Batiot, J.P. Bourge, T Bui, L. Dixon-Cave, J. Farinez, J. Forrest, M. Jahangiri, J. Jalaludin, T. McMillan, S. Norizan, N. Othman, H. Roed, L. Vizzini & R. Yildiz, “**The Samarang Alliance: A Joint Petronas Carigali/Schlumberger Project to revitalize a Mature Oil Field**, 2010 Reservoir Symposim, May 2010

Education: 1991–1995, Colorado School of Mines, Golden, CO,
Bachelor of Science degree in Petroleum Engineering, Dean’s List, CGPA 3.5/4.0
Minor in International Political Economy (Latin America)
1990-1991, Indiana University, Bloomington IN, Prep courses
1990-1991, Bloomington High School North, IN, College Chemistry & Physics
1985-1989, MARA Junior Science College, Terengganu, state best student SPM 1989

Software Capability:

Technical Softwares:

- Expert level:
 - ECLIPSE, Petrel
 - Production database manager, i.e. OFM
 - Subsurface nodal analysis & surface network modeling, i.e. Prosper/GAP, Pipesim/Pipesim-Net, WellFlo/ReO,
- Advanced in MBAL

Data Processors:

- Spreadsheets, graphics, word processing, e-mail, Internet, database, project.

Personal Activities:

- Advanced scuba diver/ Underwater photography
- Hobbyist singer/ writer
- Travel/Backpacking/Photography
- Black belt Tae-Kwon-Do