



ABSTRACT

1000244

Senior Completion Engineer

SENIOR COMPLETION ENGINEER

PROFESSIONAL SUMMARY

Held the position of technical lead to several groups of engineers heavily involved in research to find solution to everyday operations and technical petroleum engineering problems. In addition, lead the development of new technologies by vendor engagement in conducting research and implementing solutions across our operation. Engaged industrial partners, government constituencies' operators and local vendors to develop and strengthen the national oil companies, national service providers and local vendors. Promoted participation in providing equipment and services to the Oil and Gas Industry by these local vendors. Taught undergraduate and graduate level engineering courses as well as several petroleum engineering short courses during academic studies. Conducted classes for staff personnel particularly younger engineers in a variety of Petroleum engineering topics throughout career.

PROFESSIONAL EXPERIENCE

3 years

Independent Consulting Company: Houston TX, USA

Drilling and Completion Engineering Consultant

Worked on several Drilling Projects in the Malongo and Congo Basins. Drilling planning and tendering for several exploratory wells in several blocks in the Kwanza Basin. Drilling Engineering Training for State drilling engineers. QA/QC Drilling and completion projects for state company .

4 years

International Oil Company (IOC), Houston TX, USA

Senior Completion Engineer

Deep Water Completion Engineer involved in designing injector and producer wells requiring Sand Control. Well delivery team for GOM Deepwater, Development producers & Water Injection in Soft Sands. Writing procedures in conformance with GOM Regulations and anticipated annular pressure profiles.. Execute projects in conformance with CFRs and Operator's' Group practices and where applicable API and ISO standards. Well design and operations in most cases exceeding CFR's. Knowledgeable of the entire permitting process and regulations governing such. All aspects of Well design and performance evaluation. Smart Completions for both producers and water injectors.

3 years

International Oil Company (IOC), Balikpapan, Indonesia

Advisor – Senior Completion Engineer

Provide technical and planning support for all Upper Completions, Multi-Zone Sand Face Completions (using a wide spectrum of Sand Control techniques i.e. MST, STMZ, SAS, ESS, OHGP, IGP, HRWP,FP) and Deep HPHT Fracturing Operations. Technical advisor for pre-project planning and execution on all pumping, completion and stimulation activities. DST Engineering Advisor, Preparation of AFE, EE, OE. Contracts preparation and management. Work closely with regulatory bodies. Work in a multi cultural multi-disciplined environment, as well as train and Mentor younger engineers. Review and recommend safety procedures and standard drilling and completion practices. Recommend amendments to company rules and investigated failures capture lessons learned and issue company wide recommendations and amendments to standard practices. Manage and direct the companies domestic completions and testing technical staff.

January 2004 – July 2008

PETRONAS Carigali Sdn Bhd, Kuala Lumpur, Malaysia

Principal Drilling and Completions Engineer

Provide Technical support to all of PCSB Domestic and International Drilling, DST, Completion, Workover, and Production Enhancement activities. Driver for the introduction and implementation of new completion technologies. Drilling, Field Development and Joint Venture Technical Review Committees. Reviews Drilling Completion and Workover programs/projects. and preparation of technical specifications for tendering exercise. Conducting commercial and technical evaluations and contracts management. Manage and direct the companies global and domestic completions technical staff.

March 2001 – December 2002

Schlumberger Dowell and DCS, GOM and Nigeria.

Solutions Manager

Provided solutions on field wide production optimization and reservoir management, well planning, including horizontal and conventional well location selection and trajectory design. Manage and provide consulting services to engineers across Schlumberger's segments, with particular focus on Production Enhancement Technologies, Well Construction and Completion Optimization.

September 1998 - October 2000

Drops Offshore AS, Lysaker, Norway.

Director Operations

Research, develop, test and market drilling optimization software. Consult and design drilling programs for optimal drilling performance. Well planning, review, optimal trajectory design, including mud program and Bit/BHA selection. Manage and provide technical support in all aspects of oil/gas well drilling, well completion optimization and stimulation.

October 1996 - August 1998

OSCA Lafayette, LA. USA.

Senior Applications Engineer

Provide technical support in all aspects of well completions. Conduct marketing and technical seminars in fracture design and execution.

Project Manager: Fracturing fluid development and testing. Provide training to personnel in engineering as well as operational aspects of hydraulic fracturing. Initial data analysis and fracture design. Onsite location testing/analysis and fracture re-design. Supervise hydraulic fracturing operations.

March 1995 - September 1996

Baker-Hughes INTEQ, Broussard, LA. USA.

MWD Engineer

Provide directional/well path, pore pressure, drilling optimization services for drilling operations. Real-time log analysis/interpretation. Provide training and support to other field engineers. Test and recommend modification to MWD logging and directional tools.

Sept., 1988 – Dec., 1994

University of Alaska (MS) and New Mexico Tech (PhD)

Lecturer

Lectured two Undergraduate courses, Fluid Mechanics and Engineering Dynamics

Student: Studied towards my MS and PhD in Petroleum Engineering.

June 1984 – September 1988

Trinidad and Tobago Oil Company, Trinidad WI

Reservoir Engineer

FDP team member, Analyze diagnostic tests and surveys, evaluating well logs and petrophysical data, and assisting in acquisitions and divestments of properties. Member of team responsible for determining EOR potential in fields and recommending as well as designing EOR methods. Conducting economic feasibility studies.

EDUCATION

PhD - Petroleum Engineering - New Mexico Institute of Mining and Technology - 1995

M.S - Petroleum Engineering - University of Alaska- Fairbanks - 1992

B.Sc – Petroleum Engineering - University of the West Indies – St Augustine Trinidad – 1984

SKILLS AND COMPETENCIES

Self motivated, innovative and driven person with willingness to learn and embrace new technologies as well as eager to impart to others.

Strong practical mechanical ability. Strong written and verbal communications skills both technically and socially. Ability and experience in building and implementing continuous improvement processes to reduce NPT and costs. Knowledgeable and posses a keen interest in unconventional and deep water resources development and technology developments to improve and sustain unconventional and deep water resources recovery.

Strong Project Management Skills. Managed several multi million dollar projects.

Vast majority of work experience in multi-cultural environments and mature basins throughout the world.

Completion Competencies:

Completion Design, Sand Control and Stimulation. Hydraulic Fracturing (Conventional and Frac-Pac). Frac-Fluid Chemistry, Fractured Horizontal Well Design and Performance Modeling. Horizontal Well Completion, Completion Optimization, Workover, HPHT and Tight Gas, Deep Water completion design. Material selection for hostile environments, Equipment qualification and testing. Completion design stress analysis. Staged frac systems. Completion experience in Land, shelf and deep water operations.

Drilling Competencies:

Drill Bit Modeling, Drilling Fluids Performance Modeling, Horizontal Well Drilling, Drilling Optimization, Mud Program Design, BHA Design, Casing Design, Drilling, Workover and Completion Procedures

Production Competencies:

Production Optimization, Rapid Production Assessment Techniques, Artificial lift systems.

Reservoir Competencies:

Simulation, Reservoir Management, Water Management, Rapid Reservoir Assessment Techniques and Pressure Transient Testing.

Computer Competencies:

MS Office Suite, CADE Office, Eclipse, Most Nodal Analysis Software, MFrac Suite, STIMPLAN, Most Welltest Software, PEEP, OFM and PIPESIM, Landmark Compass, WellCat, WellPlan, Stress Check, Casing Seat, EDM etc. Prosper, Cerberus. Competent in log interpretation both Open and Cased hole.

TECHNICAL PAPERS AND TECHNOLOGY PRESENTATIONS

- Hareland, G., Azar J.J. and Rampersad, P.R.: "Comparison of Cuttings Transport in Directional Drilling Using LVT Invert Emulsion Mineral Oil-Based Muds and Water-Based Muds," SPE 25871, presented at the Joint Rocky Mountain regional Meeting, Denver Colorado, April 12-16, 1993.
- Hareland, G. and Rampersad, P.R.: "Hydraulic Fracturing Design Optimization," SPE 26949, presented at Eastern Regional Conference, Pittsburgh, PA, April 12-16, 1993.
- Rampersad, P.R., Hareland, G. and Pairintra, T, "Drilling Optimization of an Oil or Gas Field," SPE 26950, presented at Eastern Regional Conference, Pittsburgh, PA, April 12-16, 1993.
- Hareland, G. and Rampersad, P.R.: "Drag-Bit Model Including Wear," SPE 26957, presented at the III Latin America and Caribbean Petroleum Engineering Conference, Buenos Aires, Argentina. April 26 - 29, 1994.
- Rampersad, P.R., Hareland, G. and Boonyapaluk, P.: "Drilling Simulation of an Oil or Gas Field Using available Technology and Drilling Data," SPE 27034, presented at the III Latin America and Caribbean Petroleum Engineering Conference, Buenos Aires, Argentina. April 26 - 29, 1994.
- Hareland, G. and Rampersad, P.R.: "Hydraulic Fracturing Design Optimization in Low Permeability Gas Reservoirs," SPE 27033, presented at the III Latin America and Caribbean Petroleum Engineering Conference, Buenos Aires, Argentina. April 26 - 29, 1994.
- Rampersad, P.R, Ogbe, D.O, and Kamath, V.A.: "A Model for Investigating the Effects of Trapping and Water-Solvent Ratio in Miscible Processes," in Proceedings of the 49th American Chemical Society Northwest Regional Meeting, Anchorage, Alaska. June 16-18, 1994.
- Rampersad, P.R.: *Design and Performance of Fractured Horizontal Wells*, Ph.D. Dissertation. New Mexico Institute of Mining and Technology, Socorro, New Mexico. December, 1994
- Rampersad, P.R, Ogbe, D.O, Kamath, V.A. and Islam, R: "Impact of Trapping of Residual Oil by Mobile Water on Recovery Performance in Miscible Enhanced Oil Recovery Processes," SPE 29563 Presented at the Joint Rocky Mountain\Low Permeability Reservoirs Symposium, Denver, Colorado, March 22, 1995.
- Rampersad, P.R. and Hareland, G.: "Solution to Potential Flow Problems in Porous Media Within Complex Geometrical Domains," SPE 36107 Presented at the IV Latin America and Caribbean Petroleum Engineering Conference, Port of Spain, Trinidad. April 23 - 26, 1996.
- Hareland, G. and Rampersad, P.R. : "Fractured Horizontal Well and Completion Nodal Analysis Simulator," Presented at the IV Latin America and Caribbean Petroleum Engineering Conference, Port of Spain, Trinidad. April 23 - 26, 1996.
- Rampersad, P. R. Hareland, G and Olav Skar.: "Drilling Simulation – The Key to Cost Reduction". Presented at the World Petroleum Congress Calgary Alberta Canada June 2000.
- Rampersad, P. R. Hareland, G and Olav Skar.: "Simulation Can Optimize Drilling and Cut Costs". *Drilling Contractor* Pages 42-47 May/June 2000

- Rampersad, Paul R.: “Effectiveness of Sand Control Techniques” Presented at the SPE APPLIED TECHNOLOGY WORKSHOP (ATW) “Sand Control – Lessons Learned and Best Practices” Phuket, Thailand, 13-16 May 2007.

FORMAL INDUSTRY TRAINING

2014 - Well Control, (Drilling, WO, SN, WL, EL). Houston TX, USA
 2009 – Hydraulic Fracturing Tight Gas Sands, Balikpapan Indonesia
 2004 – HSE - Hazard and Effect Management Process Level 2. INSTEP Trengganu Malaysia
 2002 - Water Management, Schlumberger, Port Harcourt, Nigeria.
 2002 - Cased Hole Logging, Schlumberger, Lagos Nigeria
 2002 - OFM and PASS Training, Schlumberger, Houston Texas
 2001 - OFS 4 Finance, Schlumberger, Houston Texas
 2001 - SRC Perforating, Schlumberger, Rosharon, Texas
 2001 - OFS 3, Management Training, Schlumberger, Houston Texas
 1998 - Coil Tubing and its Application. SPE, Lafayette, LA.
 1997 - Hydraulic Fracturing Pressure Analysis. SPE, Lafayette. LA
 1996 - RGD Theory and Operations. Baker Hughes Inteq, Broussard, LA.
 1996 - Formation Pressure Evaluation. Baker Hughes Inteq, Broussard, LA.
 1995 - Slim Hole MWD. Baker Hughes Inteq, Houston Texas.
 1995 - Intro to Basic MWD Services. Baker Hughes Inteq, Broussard, LA.

SPECIAL SKILLS/ AWARDS

Fellowship Recipient from the Organization of American States
 Strong mechanical ability.
 Strong written and verbal communications skills

Pilot Skills and Competencies

Commercial Pilot Multi Engine Land Instrument Airplane.
 Private privileges Single Engine Land Instrument Airplane.

REFERENCES

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 BP America Inc.,
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Sunrise Energy, Houston TX USA
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