

Robert M. Pearson, P. Eng.
Technical Director
Glynn Resources Ltd. (GRL)

Key Qualifications:

Bob Pearson is a registered Professional Engineer in Alberta, Canada. He has a strong technical background in petroleum engineering and extensive practical experience in applying those principles to technology transfer. He has extensive experience with Oil and Gas Field Development Planning and Completions/Production Engineering for Frontier, marginal and unconventional resource plays. Recently, Mr. Pearson has been actively involved in peer reviews, the development of technical training materials and has acted as an Expert Witness and Subject Matter Expert. He is a former SPE Distinguished Lecturer on Optimized Gas-well Completions and Operations; and served on the SPE International Board, as the Technical Director for Production and Facilities from 2019-22.

Experience

**Glynn Resources
Ltd. Calgary,
Alberta, Canada.
2017-present.**

Technical Director and Subsurface Advisor

Provided consulting, peer review and training services relating to integrated studies, field development concepts and rehabilitation planning, production optimization, completions concepts and technology transfer, especially for tight gas Exploration and Production (E & P) and Cold Heavy Oil Operations.

Acted as an expert witness on gas well clean-up and clean-out procedures and practices, methane emissions mitigation, and operations reporting.

Led several integrated and subsurface peer-review teams on looking at International Oil and Gas Projects and E&A Portfolios, including waterflood and EOR operations, low permeability and tight gas and unconventional oil developments. Reviewed near-field E&A and tie-back opportunities for offshore field life extension projects. Studied production and reservoir management challenges.

Technical content specialist and workshop facilitator for IHRDC. Developing new content relating to unconventional gas operations for their Competency Models, Development Planning Workshops and the IPIMS Multi-media Knowledge and Learning Systems. Rewrote the Basic Completions Engineering module for IPIMS. Assisted in teaching and facilitating sessions for IHRDC's Integrated E & P Workshops in Europe.

Identifying innovative technologies under commercialization for the O & G Industry in Canada that might be useful for companies with onshore, unconventional gas operations in Australia.

**Tactical Gas
Services,
Brisbane,
Australia,
2012- 2017**

Technical Director and Petroleum Engineering Advisor

Provision of technology transfer and consulting services relating to deep gas-well completions concept selection and design. Conceptual field development planning for a new, fracture stimulated, deep, tight gas play in Eastern Australia. Providing advice to companies exploring/appraising tight gas; planning a long multi-zone completion on Extended Reach Drilling (ERD) infill well from an offshore platform; and evaluating water-flood opportunities. Evaluated mature field redevelopment and M & A opportunities,

including site visits to offshore facilities during the 'due-diligence' phase. Expert witness work on a Heavy Oil patent dispute.

Technical content specialist and instructor for IHRDC. Developed new content for their Integrated Development Planning (IDP) Workshop; and IPIMS Multimedia Knowledge and Learning Systems, including a new module on Tight Gas. Assisted in teaching and facilitating workshop sessions for IHRDC's Integrated Offshore and Deepwater E & P Workshops for several major companies in Australia, the Asia Pacific Region.

Technical Advisor to RPS Energy in the Australia/ Asia Pacific Region on CSG, Tight Sands/Shale Gas.

**RPS Energy
Brisbane,
Australia,
2011- 12**

Technical Director for CSG (CBM) and Unconventional Gas

Consulting on field development planning and completions engineering for several new gas plays in Eastern Australia. Assisted RPS East to expand their support service offerings in the Energy Sector. Reviewed offshore field operations staffing strategies.

**E & P Technology -
Training, Singapore
2010**

Managing Director and Petroleum Engineering Advisor

Technology transfer on CBM/CSG and stranded gas development opportunities. Consulting on unconventional well completion problems and sand management. Peer reviewed offshore and deepwater development plans.

**RPS Energy
Limited
Calgary; Singapore
2007-2009;**

Operational Director for Energy Consulting and Senior Petroleum Engineering Advisor

Technical due diligence for a major CSG/CBM acquisition. Technology transfer specialist on unconventional Resource Plays, including Primary or Thermal Heavy Oil and tight gas developments. Technology transfer of unconventional gas development; resource assessments; and on low cost, campaign style well manufacturing. Peer reviews of field development and revitalization plans; and quality control of evaluation reports.

Led screening studies on Development Concepts for marginal oilfields unconventional or stranded gas; and Deepwater Development Projects. Quality control on a variety of integrated studies, including Resource and Reserves Evaluations; Field Development or Revitalization Plans; Production Modelling and Optimization studies; and due diligence or peer reviews of Oil-Sands Projects.

**APA Petroleum
Engineering Ltd.
Calgary
1983-2007**

Petroleum Engineering Advisor & Founding Director of a Canadian Consulting Company

Management and competency development of up to 25 Petroleum Engineering professionals.

Led Integrated Field Studies and the Peer Review of Field Development Plans.

Performed Strategic Technology Assessments.

Preparation of Best Practice Guidelines.

Screened completion concept and design, including semi-smart

completions for sub-sea, TLP, platform and land wells.

Assessed technology gaps for High pressure, high temperature (HPHT) and non-conventional developments.

Sand management studies for conventional and non-conventional wells and SAGD operations.

Expert Witness Testimony for Regulatory Hearings and Lawsuits.

Development Plan Preparation and Audits for offshore, deepwater and rehabilitation projects.

Developed and led a series of Well and Production Engineering Courses for Mobil Exploration and Production Technology Center (MEPTEC) including Well Performance; Completions Equipment; Completions and Workover Planning; Tubulars Stress Analysis and Sand Control.

Taught public courses on Well Completions and Workovers Planning for IHRDC; PEICE; Pet. Soc of CIM (now the SPE Canadian Section); University of Calgary and several OPCOs.

**PetroCanada
Calgary
1980-1983**

Production Engineering & Planning Manager, Offshore & International

Responsible for Frontier Development projects including total subsea; FPSO and platform developments in Canada and Spain. Evaluated Arctic Islands and Beaufort Sea gas commercialization concepts.

Responsible for evaluating well and production operations and testing for non-operated assets.

Responsible for conceptual completions designs and costs in support of expected monetary value (EMVs) estimates and risk analysis.

Evaluated the development of strategic technology and tools.

**Shell International
Petroleum Group
1970-1980**

Senior Production Technologist, Brunei

Responsible for Production and Completions Engineering; Workovers and Tactical Forecasts and for the development of two National Engineers.

Part of the integrated development team preparing plans for the development of the heavier oils; an offshore water-flood and gas compression projects.

Responsible for completion, gravel packing, gas-lift optimization, workover and stimulation planning, increasing production by 30% over 18 months.

Involved in relief well and blow-out management planning.

Production and Well Engineer, SIPM, The Hague

Prepared the initial draft of the Shell Tubulars Design Manual and instructed well design courses at the Shell Training Centre.

Participated in evaluation of Extreme Reach Wells (ERW) and Multi-fraced, high angle wells.

Production Technology Manager, Aberdeen

Led a team of Production Technologists during the initial development and start-up of Brent, Cormorant and Dunlin Fields in the North Sea.

Production Technologist and Economics Engineer. London

Worked on completion concepts and production forecasts for total sub-sea and platform developments.

Evaluated corrosion, sulphate reducing bacteria (SRB) souring, scale and injection control for seawater injection projects.

Evaluated pipe-lay barge contracting and utilization strategies.

Production – Reservoir Engineer, Lowestoft

Lead a team of 3 Production Engineers and Technician during the initial stimulation campaigns and compressor installations at the Leman Gasfield in the Southern North Sea.

Operational Petroleum Engineer and Production Technologist, London.

Operations Engineer for Single String Exploration Venture in Kalimantan.

Wellsite Petroleum Engineer for major workover campaign in SW Ampa, Brunei.

Wellsite Petroleum Engineer for Exploration & Delineation Wells in Sarawak & Sabah.

Trainee Petroleum Engineer in The Hague, Brunei & Sarawak.

Education

University of Newcastle-upon-Tyne, UK, B.Sc. (Hons.) Mining Engineering

Professional Society Memberships

Mr. Pearson is a Registered Professional Engineer with APEGA in Alberta, Canada.

He was a SPE Distinguished Lecturer on Optimized Gas Well Completions and Operations in 2003-04.

He has served on the Boards of the Aberdeen, Singapore, and Calgary Sections of the SPE and as Technical Director for Production and Facilities on the SPE-I Board from 2019 – 2022.