

CHARLES MOORE, P. Eng.
Senior Associate



SUMMARY

Mr. Moore has worked for over 37 years in the petroleum industry primarily in the areas of reservoir engineering and economic evaluations. He has developed particular expertise in Drill Stem Testing, Improved Oil Recovery and Oil and Gas Property Evaluation. He has worked in Canada, Indonesia and West Africa. He has also conducted studies involving reservoirs in Nigeria, France, Pakistan, India and the United States.

EDUCATION

- Nova Scotia Technical College (now part of Dalhousie University), Halifax, Canada
Degree: B. Eng. (Mining) with Distinction, 1972
Award: Governor General's Medal
- Acadia University, Wolfville, N.S., Canada
Degree: B. Sc. (Math) & Applied Science Certificate, 1970

PROFESSIONAL AFFILIATIONS

- Association of Professional Engineers, Geologists and Geoscientists of Alberta (APEGA)
- Society of Petroleum Evaluation Engineers (SPEE)
- Society of Petroleum Engineers (SPE)
- Indonesian Petroleum Association (IPA)
- American Association of Petroleum Geologists (AAPG)

PROFESSIONAL HISTORY

- Associate, Chapman Petroleum Engineering Ltd., 1997-present
- Instructor, Southern Alberta Institute of Technology, 1995-1997
- Petroleum Engineer, Ranger Oil West Africa, 1992-1994

- Senior Reservoir Engineer, Fekete Associates Inc., 1989-1992
- Senior Reservoir Engineer, Huffco Indonesia, 1982-1988
- Coordinator of Enhanced Recovery, PanCanadian Petroleum Limited, 1980-1981
- Senior Reservoir Engineer, PanCanadian Petroleum Limited, 1976-1980
- Reservoir Engineer, Shell Canada Limited, 1972-1976

KEY PROJECT EXPERIENCE

Chapman Petroleum Engineering Ltd.

Calgary, AB

- Served as an expert witness at Court of Queen's Bench, Estevan, Saskatchewan.
- Prepared and coordinated numerous multi-property oil and gas property evaluations for publicly traded companies in support of stock exchange listings, bank loans and compliance with National Instrument 51-101 requirements.
- Conducted evaluations of several international projects in France, Indonesia, Nigeria, Yemen, India and several states of the United States of America. Developing an understanding of the applicable tax and royalty regimes was necessary. A field inspection was carried out for a property in Indonesia.
- Developed a systematic approach to conducting studies of analogous wells and pools to assist in preparing forecasts for non-producing wells or producing wells with no established production decline.
- Determined risked values for exploration drilling projects.
- Assisted clients with the preparation of presentations and data management.
- Analyzed Drill Stem Test data to reach conclusions that are not obvious.

Southern Alberta Institute of Technology

Calgary, AB

- Prepared, delivered and evaluated engineering technology courses in reservoir engineering, well testing and production optimization.

Ranger Oil West Africa

Calgary, AB; Luanda, Angola; Guildford, UK; Pointe Noire, Congo

- Transferred Technology to Sonangol, Angolan personnel.
- Conducted reservoir simulation of offshore oil pool.
- Managed supply base for offshore producing operation.
- Worked with explorationists and other engineers to plan the exploration and development of an offshore Angola block.
- Designed, supervised and analyzed well tests on offshore rig.
- Prepared field production plans, offshore Angola.

Fekete Associates Inc.

Calgary, AB

- Evaluated numerous Canadian oil and gas properties for purchase, stock market listing, loans and annual reports.
- Prepared waterflood feasibility studies.
- Prepared applications and reports for regulatory bodies.

Huffco Indonesia (now Virginia Indonesia Company)

Jakarta & Balikpapan, Indonesia

- Carried out or supervised all reservoir engineering functions for major (6 TCF, 400 MMCFD) multi-zone gas and oil fields.
- Prepared and presented gas and oil field development plans for management, partner and government approval.
- Prepared well completion and testing programs and interpreted results.
- Made reserve estimates by material balance, volumetric and decline methods.
- Recommended development well locations.
- Recommended wells for fracturing and evaluated results.
- Provided technical guidance and on the job training to Indonesian engineers.
- Supervised coring, wireline testing, fluid sampling, etc. on site.
- Worked closely with production and drilling engineers, geologists and operations people to optimize production.

PanCanadian Petroleum Limited

Calgary, AB

- Directed the work of employee and consultant professionals on Enhanced Oil Recovery studies including thermal, chemical and miscible EOR applications.
- Provided input on planning, budgeting and staffing.
- Participated in staff hiring, appraisal and promotion.
- Served on industry committees.
- Designed micellar-polymer pilot projects.
- Conducted economic evaluations of proposed EOR projects.
- Prepared applications to the AEUB to operate EOR projects.
- Conducted reservoir studies on secondary and tertiary oil recovery.
- Interpreted logs and prepared completion recommendations.
- Prepared economic evaluations for wells and facilities.
- Designed and interpreted well tests (AOF, PBU, DST, etc.)
- Participated in Unitization negotiations and calculations.

Shell Canada Limited

Calgary, AB

- Carried out numerous engineering projects for oil and gas properties.
- Received extensive training in petroleum engineering.
- Prepared a manual of DST procedures and guidelines.
- Planned, supervised, interpreted and reported DST's.